

FIG. 1

1005752.060302

10005752.060302

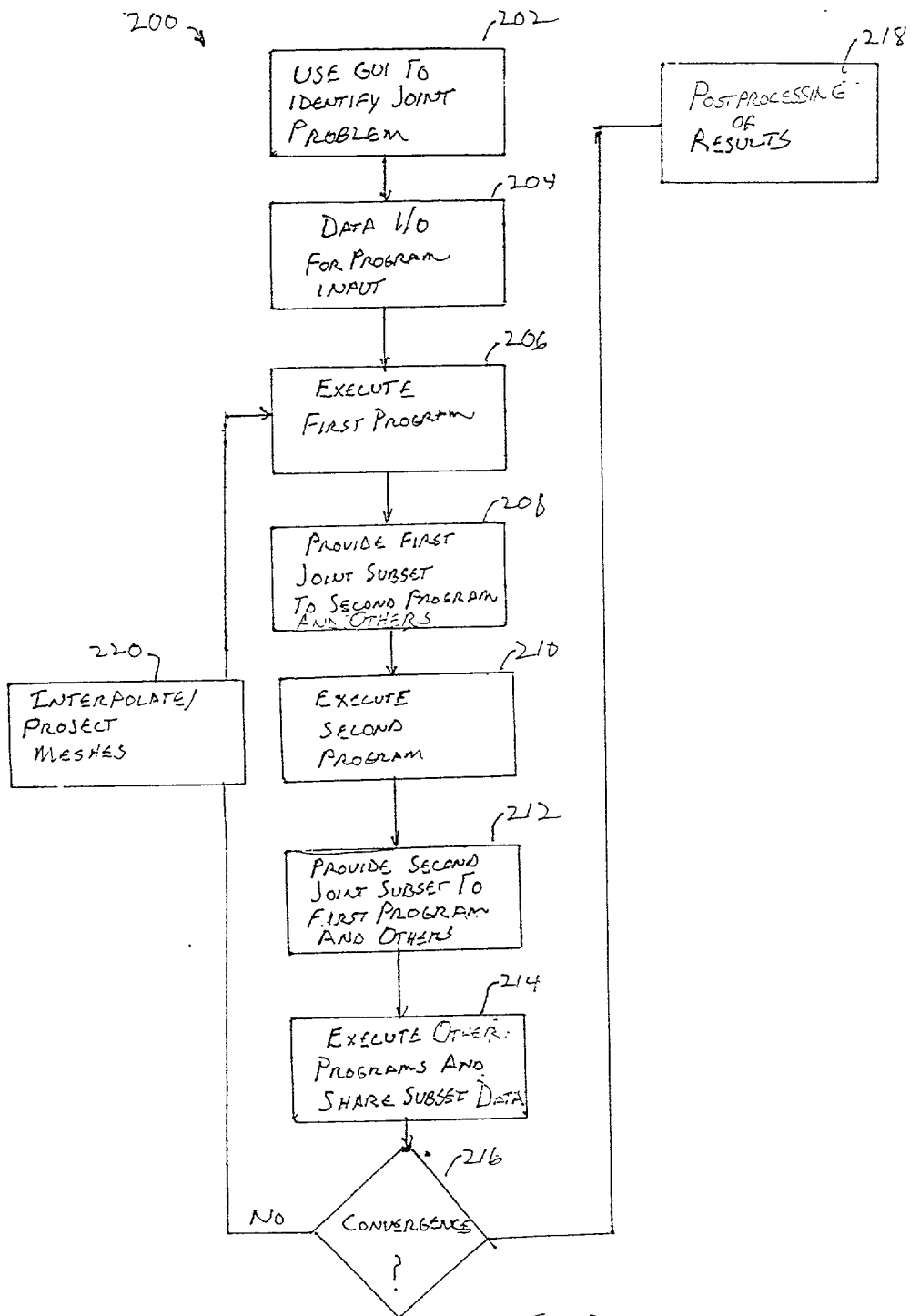


FIG. 2-

400	404	406	408	410
FILE	CREATE	EDIT	DELETE	LIST
<ul style="list-style-type: none"> NEW OPEN CLOSE READ WRITE TRANSLATE SAVE AS PRINT PRINT PREVIEW PRINT SETUP COPY EXIT EXECUTE 	<ul style="list-style-type: none"> SYSTEM POINT CURVE SURFACE VOLUME NODE ELEMENT CONSTRAINT MESH GROUP BOUNDARY COND. MATERIAL PROP. CHEM. SPECIES CHEM. RXN 	<ul style="list-style-type: none"> WORK PLANE POINT CURVE SURFACE VOLUME NODE ELEMENT MAT'L. PROP. CHEM. RXN 		
412	414	416	418	420
POST-PROCESSING	MODEL	TOOLS	VIEW	HELP
<ul style="list-style-type: none"> SUPERPOSITION INTERPOLATION DEFORMED GEOMETRY CONTOUR PLOTS VECTOR PLOTS XY PLOTS 		<ul style="list-style-type: none"> CONCENTRATION MODAL CHECKS ELEMENT DISTORTION CHECK OPTIONS 		

FIG. 4

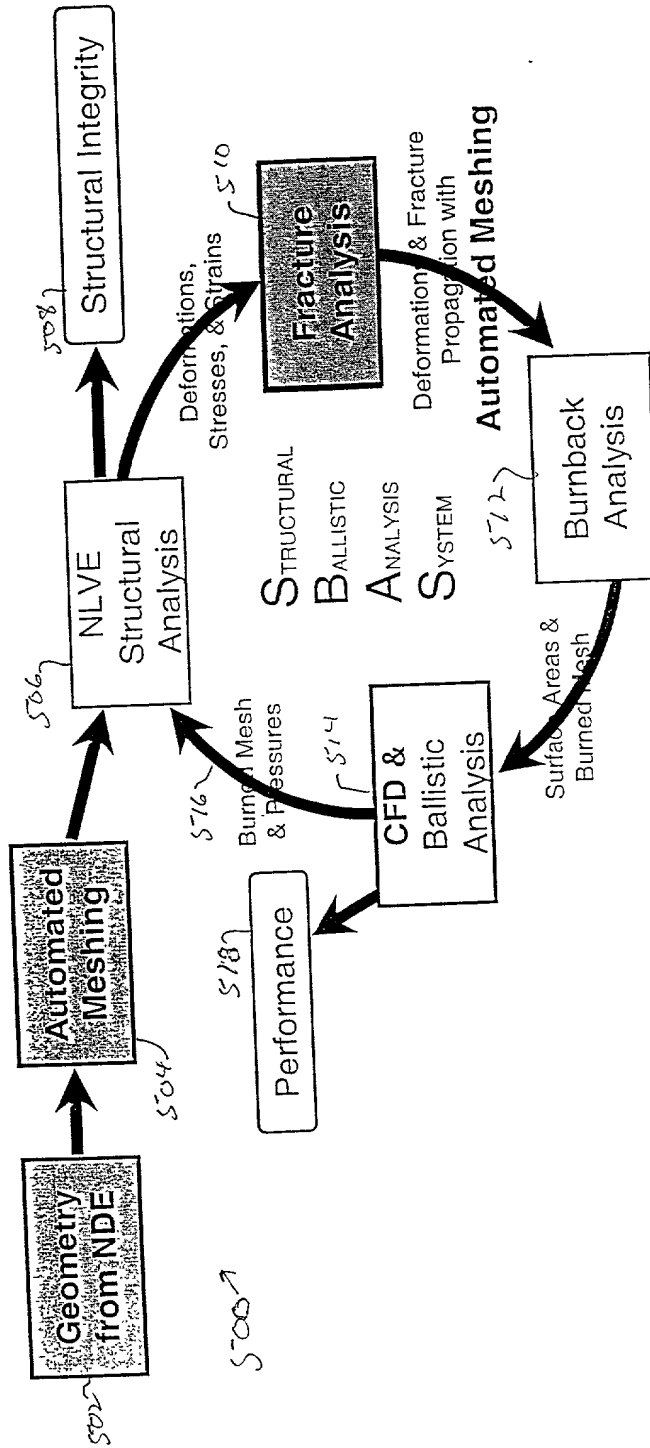


FIG. 5



CERTIFICATE OF EXPRESS MAILING

Express Mail Label No. EV080009638US

Date of Deposit June 3, 2002

I hereby certify that these substitute drawing pages (5 figures, 4 pages) are being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed **BOX MISSING PARTS**, Assistant Commissioner for Patents, Washington, D.C. 20231.

Amnie Lepen

10005752.060302
20020904 2250007

Node Key:

- × Corner and Mid-side node (Required)
- Mid-side node (Optional)
- ⊕ Face center node (Optional)
- ◇ Element center node (Optional)

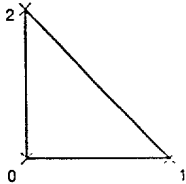
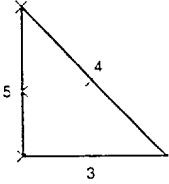
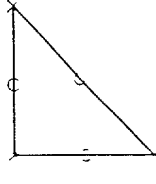
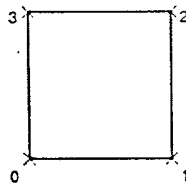
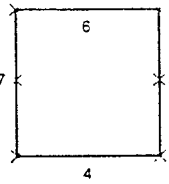
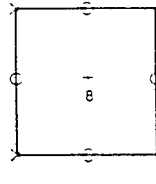
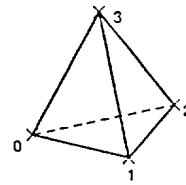
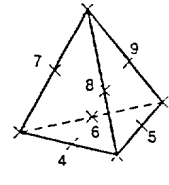
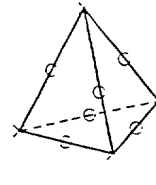
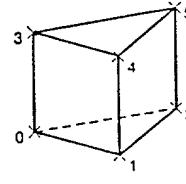
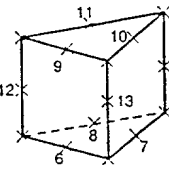
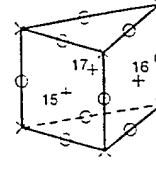
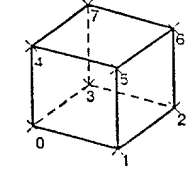
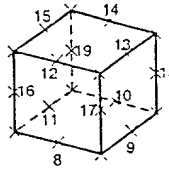
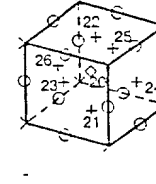
TYPE	LINEAR	PARABOLIC	VARIABLE
Point	× 0		
Line	× 0 1	× 2	
Triangle Face 0=0,1, 3 Face 1=1,2, 4 Face 2=2,0, 5			
Quadrilateral Face 0=0,1, 4 Face 1=1,2, 5 Face 2=2,3, 6 Face 3=3,0, 7			
Tetrahedron Face 0=0,2,1, 6,5,4 Face 1=0,1,3, 4,8,7 Face 2=1,2,3, 5,9,8 Face 3=2,0,3, 6,7,9			
Wedge Face 0=0,2,1, 8,7,6 Face 1=3,4,5, 9,10,11 Face 2=0,1,4,3, 6,13,9,12,15 Face 3=1,2,5,4, 7,14,10,13,16 Face 4=2,0,3,5, 8,12,11,14,17			
Brick Face 0=0,3,2,1, 11,10,9,8,21 Face 1=4,5,6,7, 12,13,14,15,22 Face 2=0,1,5,4, 8,17,12,16,23 Face 3=1,2,6,5, 9,18,13,17,24 Face 4=2,3,7,6, 10,19,14,18,25 Face 5=3,0,4,7, 11,16,15,19,26			

FIG. 6

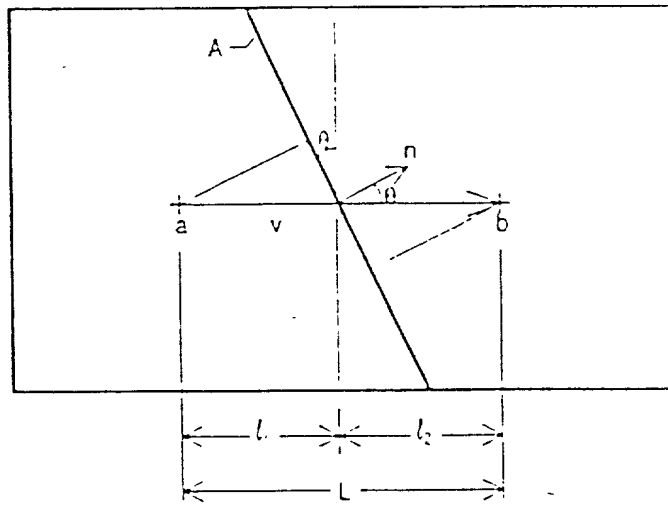


FIG. 7

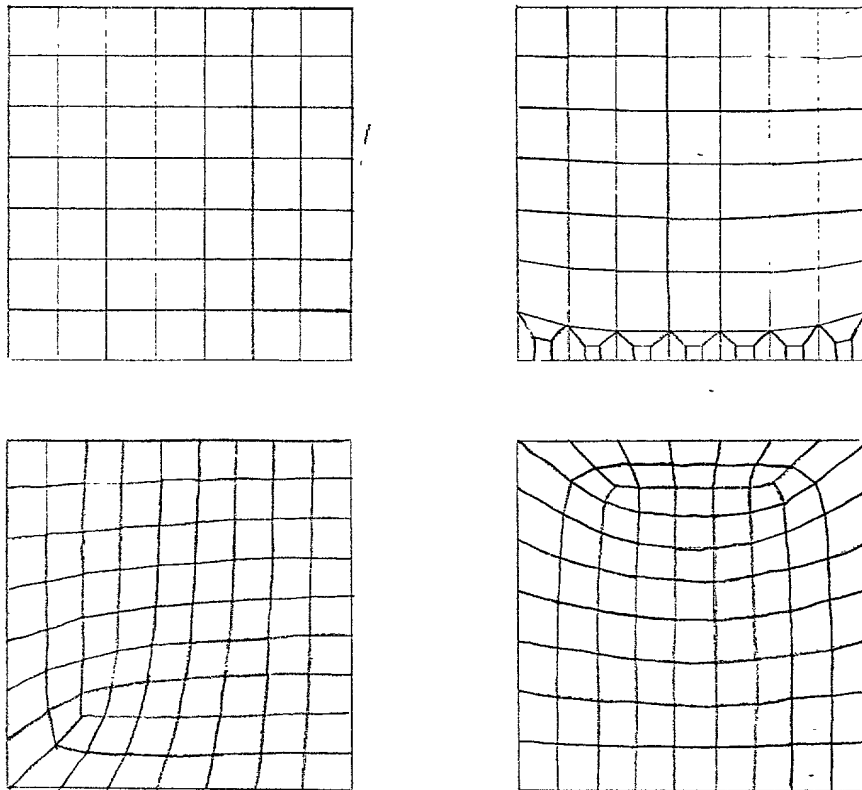


FIG. 8

1005752-060302

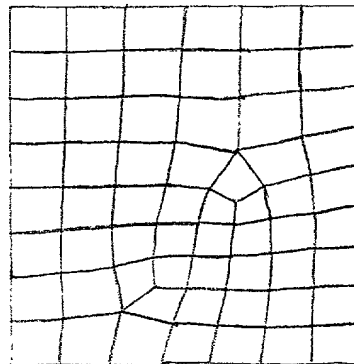
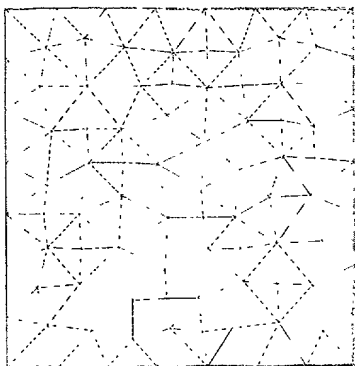


FIG. 9

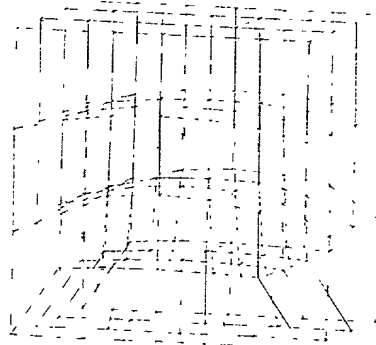
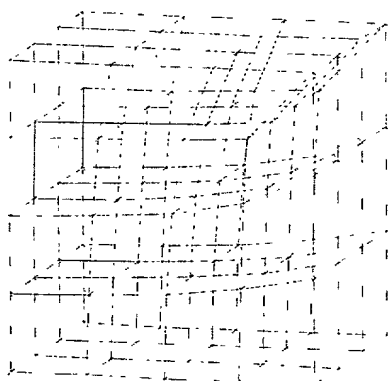
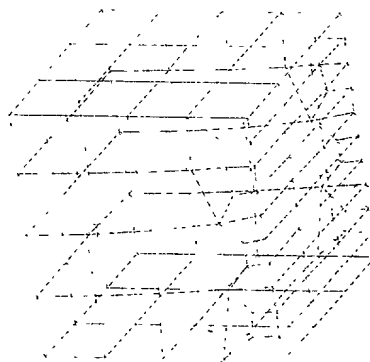
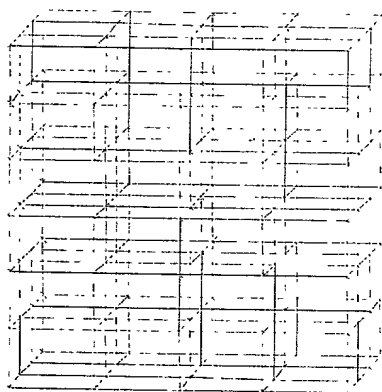


FIG. 10

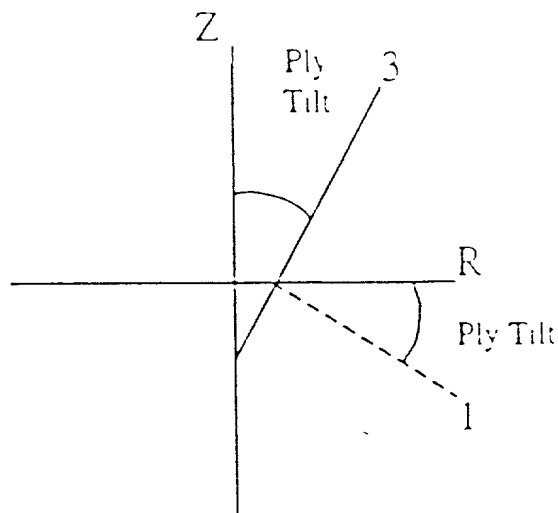


FIG. 11

20000901 2525001

Exploring - D:\			
File Edit View Go Favorites Tools Help			
Name	Size	Type	Modified
Ccm		File Folder	9/21/01 9:21 AM
Cdca		File Folder	9/21/01 9:21 AM
FEM Builder 1.2		File Folder	9/21/01 9:21 AM
Recess		File Folder	9/21/01 9:21 AM
inst32i.ex	294KB	EX_ File	11/19/97 4:05 PM
_isdel.exe	8KB	Application	11/19/97 4:05 PM
_setup.dll	11KB	Application Extension	11/19/97 4:08 PM
_sys1.cab	187KB	Cabinet	9/21/01 8:29 AM
_user1.cab	50KB	Cabinet	9/21/01 8:29 AM
Data.tag	1KB	TAG File	9/21/01 8:29 AM
data1.cab	129KB	Cabinet	9/21/01 8:29 AM
lang.dat	5KB	Movie Clip	5/30/97 11:31 AM
layout.bin	1KB	BIN File	9/21/01 8:29 AM
Msccreate.dir	0KB	Macromedia Director...	9/26/00 12:45 PM
os.dat	1KB	Movie Clip	5/6/97 2:15 PM
py152.exe	4,911KB	Application	7/16/99 10:54 AM
setup.bmp	81KB	Bitmap Image	9/17/01 11:32 AM
Setup.exe	59KB	Application	11/19/97 4:09 PM
Setup.ini	1KB	Configuration Settings	9/21/01 8:29 AM
Setup.Ins	58KB	Internet Communicati..	9/21/01 8 28 AM
setup.lid	1KB	LID File	9/21/01 8 29 AM
win32all-125.exe	2,953KB	Application	2/22/00 10:51 AM

22 object(s) 8.54MB (Disk free space: 0 bytes) My Computer

FIG. 12

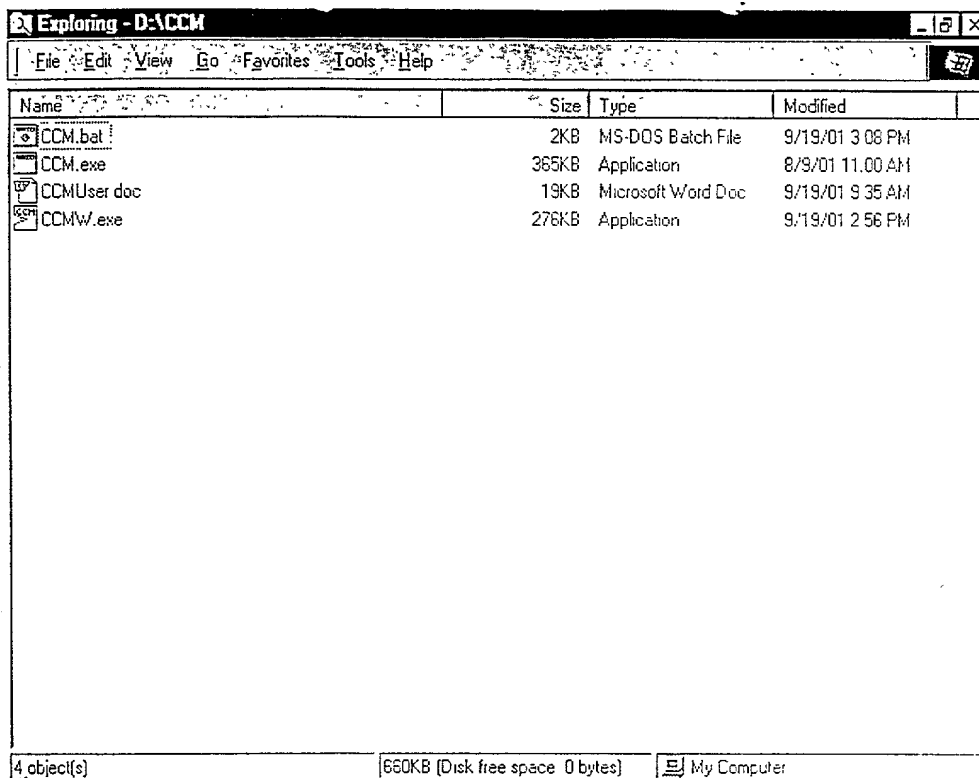


FIG. 13

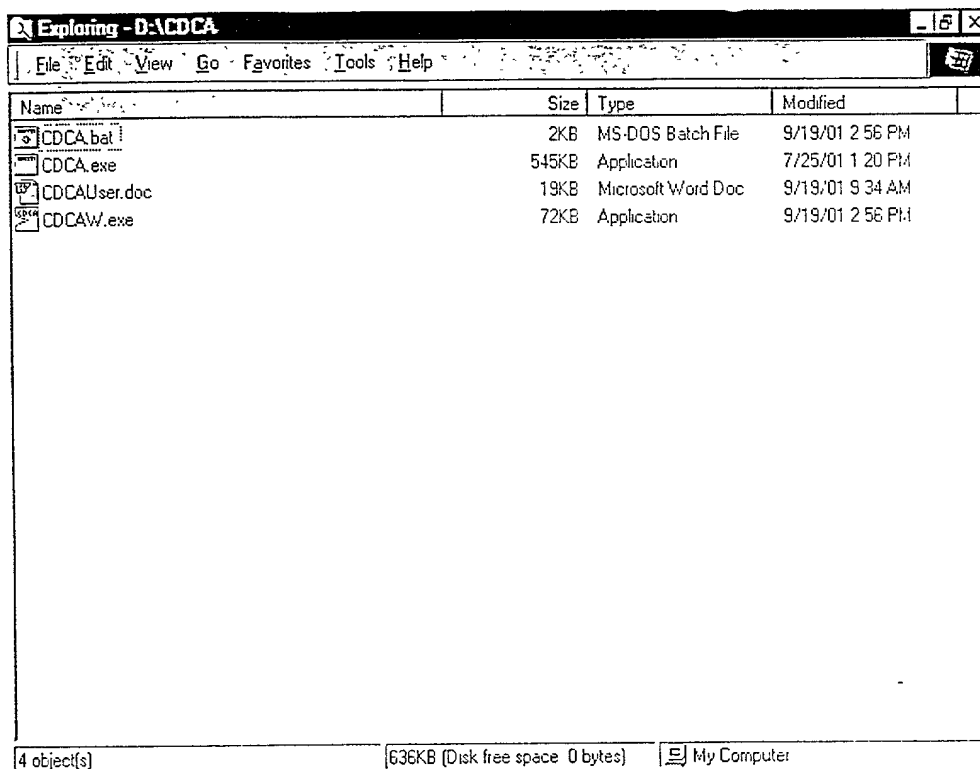


FIG. 14

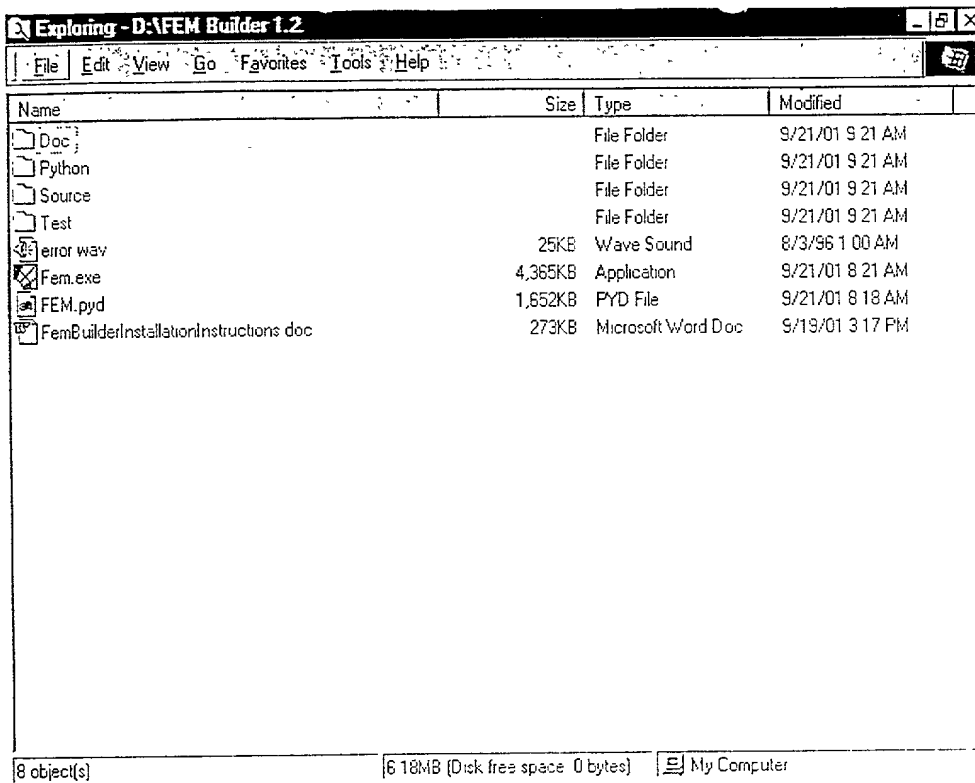


FIG. 15

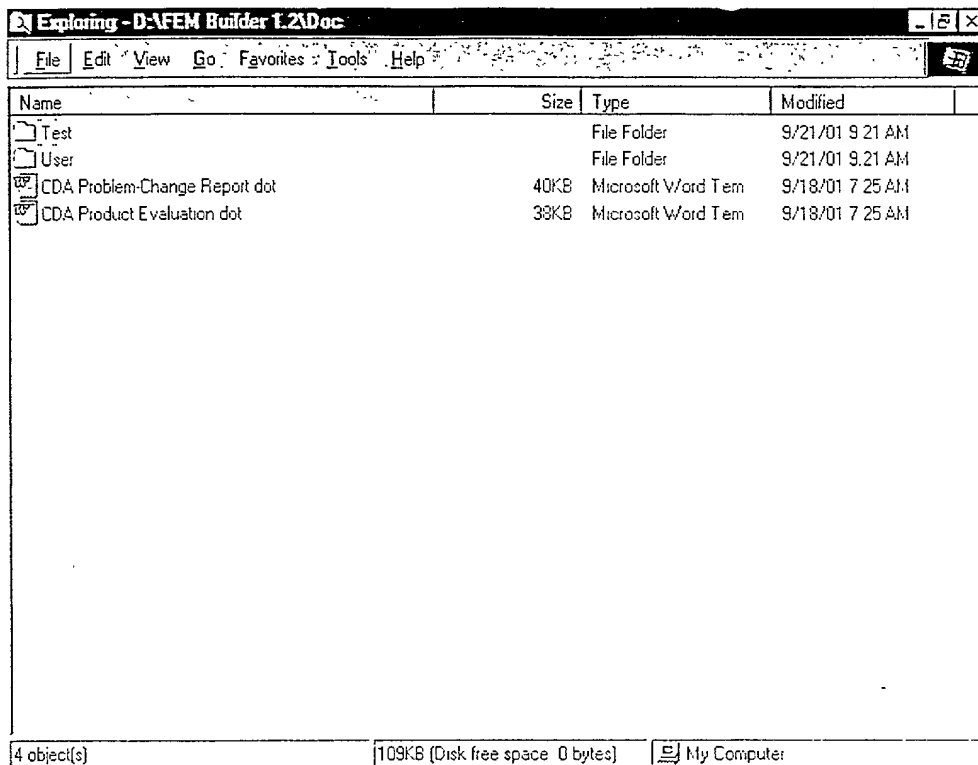


FIG. 16

20250925 23:50:01

Name	Size	Type	Modified
FEMBuilderTest.doc	162KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCoincidentNode_1.doc	43KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestConstrain2d_1.doc	75KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestConstrain2d_2.doc	76KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestConstrain2d_3.doc	77KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestConstrain3d_1.doc	117KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestConstrain3d_2.doc	91KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestConstrain3d_3.doc	102KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestCopyPrint_1.doc	95KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestCopyPrint_2.doc	28KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestCreateBC_1.doc	111KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestCreateBC_10.doc	49KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateBC_11.doc	48KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateBC_12.doc	55KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestCreateBC_13.doc	56KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateBC_2.doc	41KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateBC_3.doc	35KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestCreateBC_4.doc	36KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateBC_5.doc	47KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateBC_6.doc	35KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestCreateBC_7.doc	41KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateBC_8.doc	40KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateBC_9.doc	43KB	Microsoft Word Doc	9/18/01 7:09 AM

210 object(s) 13 MB (Disk free space: 0 bytes) My Computer

FIG. 17

Name	Size	Type	Modified
FEMBuilderTestCreateChemReaction_1.doc	32KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateGeometry_1.doc	130KB	Microsoft Word Doc	9/18/01 7:09 AM
FEMBuilderTestCreateGeometry_2.doc	109KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestCreateGeometry_3.doc	109KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestCreateGeometry_4.doc	109KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestCreateGeometry_5.doc	149KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestCreateGeometry_6.doc	59KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestCreateIC_1.doc	106KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestCreateSystem_1.doc	44KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestDeform_1.doc	39KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestDeform_2.doc	40KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestDeform_3.doc	37KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestDeleteBCs_1.doc	412KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestDeleteMaterial_1.doc	36KB	Microsoft Word Doc	9/18/01 12:26 PM
FEMBuilderTestDeleteSystem_1.doc	73KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestDistortionCheck2d_1.doc	56KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestDistortionCheck3d_1.doc	66KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestEditBCColor_1.doc	29KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestEditCurve_1.doc	87KB	Microsoft Word Doc	9/18/01 12:26 PM
FEMBuilderTestEditCurve_2.doc	126KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestEditElement_1.doc	69KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestEditElementOrientation_1.doc	76KB	Microsoft Word Doc	9/18/01 7:10 AM
FEMBuilderTestEditElementOrientation_2.doc	118KB	Microsoft Word Doc	9/18/01 7:10 AM

210 object(s) 13 MB (Disk free space: 0 bytes) My Computer

FIG. 18

Exploring - D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestInsertFlaw2D_2.doc	69KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceAbaqus_1.doc	30KB	Microsoft Word Doc...	9/18/01 7 10 AM
FEMBuilderTestInterfaceAbaqus_2.doc	28KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceAnsys_1.doc	73KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceAnsys_2.doc	44KB	Microsoft Word Doc...	9/18/01 7 10 AM
FEMBuilderTestInterfaceAschar_1.doc	100KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceAschar_2.doc	51KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceFemDB_1.doc	28KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceFemDB_2.doc	27KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceFluent_1.doc	31KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceFluent_2.doc	98KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceGridGen_1.doc	28KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceGridGen_2.doc	36KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInterfaceIdeas_1.doc	44KB	Microsoft Word Doc	9/18/01 7 11 AM
FEMBuilderTestInterfaceIdeas_2.doc	29KB	Microsoft Word Doc	9/18/01 7 11 AM
FEMBuilderTestInterfaceMaterialProperty_1.doc	29KB	Microsoft Word Doc	9/18/01 7 11 AM
FEMBuilderTestInterfacePatran_1.doc	46KB	Microsoft Word Doc	9/18/01 7 11 AM
FEMBuilderTestInterfaceRdCCM_1.doc	30KB	Microsoft Word Doc	9/18/01 12 25 PM
FEMBuilderTestInterfaceRdCCM_2.doc	31KB	Microsoft Word Doc	9/18/01 12 26 PM
FEMBuilderTestInterfaceRdCDDA_1.doc	30KB	Microsoft Word Doc	9/18/01 12 26 PM
FEMBuilderTestInterfaceRdCDDA_2.doc	31KB	Microsoft Word Doc	9/18/01 12 26 PM
FEMBuilderTestInterfaceRecess_1-10.doc	36KB	Microsoft Word Doc	9/18/01 7 11 AM
FEMBuilderTestInterfaceRdSharp_1.doc	42KB	Microsoft Word Doc	9/18/01 12 26 PM

210 object(s) 13.6MB (Disk free space: 0 bytes) My Computer

FIG. 19

Exploring - D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestEditMeshAttribute_1.doc	37KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestEditNode_1.doc	68KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestEditWorkplane_1.doc	32KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestEditWorkplane_2.doc	42KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestExecuteAbaqus_1.doc	36KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestExecuteCCM_1.doc	32KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestExecuteCDDA_1.doc	33KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestExecuteFluent_1.doc	37KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestExecuteRecess_1.doc	33KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestFemCreate_1.doc	80KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestFemCreateGroup.doc	49KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestFemDelete_1.doc	93KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestFemDelete_2.doc	36KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestFemEditColor_1.doc	91KB	Microsoft Word Doc	9/18/01 7 10 AM
FemBuilderTestFracture_1.doc	105KB	Microsoft Word Doc	9/18/01 7 10 AM
FemBuilderTestFracture_2.doc	65KB	Microsoft Word Doc	9/18/01 7 10 AM
FemBuilderTestFracture_3.doc	71KB	Microsoft Word Doc	9/18/01 7 10 AM
FemBuilderTestFracture_4.doc	112KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestGeometryCreateGroup.doc	55KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestGeometryDelete_1.doc	154KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestGeometryEditColor_1.doc	175KB	Microsoft Word Doc	9/18/01 7 10 AM
FemBuilderTestHelp_1.doc	23KB	Microsoft Word Doc	9/18/01 7 10 AM
FEMBuilderTestInsertFlaw2D_1.doc	77KB	Microsoft Word Doc	9/18/01 7 10 AM

210 object(s) 13.6MB (Disk free space: 0 bytes) My Computer

FIG. 20

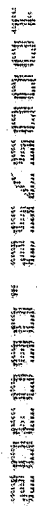


FIG. 22



20050925 0600T

Name	Size	Type	Modified
FEMBuilderTestMoveCopy_4.doc	60KB	Microsoft Word Doc	9/18/01 12:26 PM
FEMBuilderTestMoveCopy_5.doc	56KB	Microsoft Word Doc	9/18/01 12:26 PM
FEMBuilderTestMoveCopy_6.doc	67KB	Microsoft Word Doc	9/18/01 12:26 PM
FEMBuilderTestMoveCopy_7.doc	84KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestMoveCopy_8.doc	53KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestMoveCopy_9.doc	50KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestPostAverageResult.doc	80KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestPostContour_1.doc	97KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestPostContour_2.doc	32KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestPostDeform.doc	41KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestPostResults_1.doc	46KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestPostResults_2.doc	33KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestPostResults_3.doc	23KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestPostResults_4.doc	25KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestPostResults_5.doc	25KB	Microsoft Word Doc	9/18/01 7:11 AM
FEMBuilderTestPostVector.doc	32KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestPostXYPlot_1.doc	34KB	Microsoft Word Doc	9/21/01 6:15 AM
FEMBuilderTestPostXYPlot_2.doc	27KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestPostXYPlot_3.doc	26KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestPostXYPlot_4.doc	62KB	Microsoft Word Doc	9/21/01 6:15 AM
FEMBuilderTestPostXYPlot_5.doc	45KB	Microsoft Word Doc	9/21/01 7:32 AM
FEMBuilderTestPostXYPlot_6.doc	135KB	Microsoft Word Doc	9/21/01 6:15 AM
FEMBuilderTestPostXYPlot_7.doc	32KB	Microsoft Word Doc	9/21/01 6:15 AM

210 object(s) 13.6MB (Disk free space: 0 bytes) My Computer

FIG. 23

Name	Size	Type	Modified
FEMBuilderTestPostXYPlot_8.doc	143KB	Microsoft Word Doc	9/21/01 7:07 AM
FEMBuilderTestPostXYPlot_9.doc	102KB	Microsoft Word Doc	9/21/01 7:07 AM
FEMBuilderTestRefineMesh_1.doc	164KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestRefineMesh_2.doc	81KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestRefineMesh_3.doc	86KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestRefineMesh_4.doc	83KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestRefineMesh_5.doc	64KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectAnalysisresults_1.doc	35KB	Microsoft Word Doc	9/20/01 10:38 AM
FEMBuilderTestSelectCurve_1.doc	55KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectElement_1.doc	152KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectFace_1.doc	56KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectGroup_1.doc	27KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectMaterialProperties_1.doc	28KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectNode_1.doc	159KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectPoint_1.doc	51KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectSurface_1.doc	65KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectSystem_1.doc	28KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSelectVolume_1.doc	80KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSmooth2d_1.doc	35KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSmooth2d_2.doc	37KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSmooth2d_3.doc	42KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestSolverLess2d_1.doc	271KB	Microsoft Word Doc	9/18/01 7:12 AM
FEMBuilderTestStandardAxisym1.doc	28KB	Microsoft Word Doc	9/18/01 7:12 AM

210 object(s) 13.6MB (Disk free space: 0 bytes) My Computer

FIG. 24

2000-06-01 23:50:01

Exploring - D:\FEM Builder 1.2\Doc\Test

Name	Size	Type	Modified
FEMBuilderTestStandardEdgeNotched2D.doc	164KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardEdgeNotched3D.doc	217KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardFluidCFD1.doc	36KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardHeat0.doc	44KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardHeat1.doc	47KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardHTAxisym1.doc	50KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardNozzle1.doc	38KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardPlaneE1.doc	25KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardPlaneE2.doc	30KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardPlaneS1.doc	25KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardPlaneS2.doc	30KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardSolid1L.doc	26KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardSolid1O.doc	27KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardSolidCFD1.doc	36KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestSubModel_1.doc	53KB	Microsoft Word Doc	9/18/01 12 26 PM
FEMBuilderTestSubModel_2.doc	51KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestSubModel_3.doc	54KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestThermalAblation_1.doc	68KB	Microsoft Word Doc	9/18/01 12 26 PM
FEMBuilderTestThermalAblation_2.doc	100KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestToolsOptions_1.doc	28KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestViewBlankUnblank_1.doc	65KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestViewDisplaySettings_1.doc	252KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestViewOrientation_1.doc	41KB	Microsoft Word Doc	9/18/01 7 12 AM

210 object(s) 13 6MB (Disk free space: 0 bytes) My Computer

FIG. 25

Exploring - D:\FEM Builder 1.2\Doc\Test

Name	Size	Type	Modified
FEMBuilderTestStandardHeat1.doc	47KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardHTAxisym1.doc	50KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardNozzle1.doc	38KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardPlaneE1.doc	25KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardPlaneE2.doc	30KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardPlaneS1.doc	25KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardPlaneS2.doc	30KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardSolid1L.doc	26KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardSolid1Q.doc	27KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestStandardSolidCFD1.doc	36KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestSubModel_1.doc	53KB	Microsoft Word Doc	9/18/01 12 26 PM
FEMBuilderTestSubModel_2.doc	51KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestSubModel_3.doc	54KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestThermalAblation_1.doc	68KB	Microsoft Word Doc	9/18/01 12 26 PM
FEMBuilderTestThermalAblation_2.doc	100KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestToolsOptions_1.doc	28KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestViewBlankUnblank_1.doc	65KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestViewDisplaySettings_1.doc	252KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestViewOrientation_1.doc	41KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestViewOrientation_2.doc	228KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestViewOrientation_3.doc	69KB	Microsoft Word Doc	9/18/01 7 12 AM
FEMBuilderTestViewScreenOptions_1.doc	59KB	Microsoft Word Doc	9/18/01 7 12 AM

210 object(s) 13 6MB (Disk free space: 0 bytes) My Computer

FIG. 26

Exploring - D:\FEM Builder 1.2\Doc\User

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderPython.doc	410KB	Microsoft Word Doc	9/17/01 11:34 AM
FemBuilderSolvers.doc	23KB	Microsoft Word Doc	9/17/01 11:34 AM
FemBuilderSolversLess2D.doc	400KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderTraining.doc	537KB	Microsoft Word Doc	9/19/01 11:54 AM
FEMBuilderUser.doc	111KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserAbaqusInterface.doc	54KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserAnsysInterface.doc	51KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserAppendixAbaqusSupport.doc	111KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserAppendixAnsysSupport.doc	173KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserAppendixElementLibrary.doc	256KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserAppendixMatProperties.doc	40KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserAppendixSelection.doc	65KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserAschatInterface.doc	24KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserCDCA-CCMInterface.doc	39KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserChemicalProperties.doc	25KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserCreateFEM.doc	102KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserCreateGeometry.doc	38KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserDeleteFEM.doc	25KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserDeleteGeometry.doc	25KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserEditFEM.doc	45KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserEditGeometry.doc	32KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserExecution.doc	48KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserFluentInterface.doc	43KB	Microsoft Word Doc	9/17/01 11:34 AM

44 object(s) 3.93MB (Disk free space: 0 bytes) My Computer

FIG. 27

Exploring - D:\FEM Builder 1.2\Doc\User

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderUserFluentInterface.doc	43KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserGridGenInterface.doc	23KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserIdeaSISInterface.doc	30KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserIntroduction.doc	43KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserListFEM.doc	25KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserListGeometry.doc	26KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserMaterialProperties.doc	29KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserMeshGeneration.doc	148KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserOverview.doc	41KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserPatranInterface.doc	64KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserPostFractureMechanics.doc	181KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserPostResultCalculation.doc	26KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserPostResultDisplay.doc	40KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserPostXYPlotParameters.doc	27KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserReadSharpInterface.doc	26KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserRecessInterface.doc	45KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserSindtInterface.doc	42KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserSinGenInterface.doc	23KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserTexChemInterface.doc	24KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserThermalAblation.doc	306KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserTools.doc	151KB	Microsoft Word Doc	9/17/01 11:34 AM
FEMBuilderUserView.doc	30KB	Microsoft Word Doc	9/17/01 11:34 AM

44 object(s) 3.93MB (Disk free space: 0 bytes) My Computer

FIG. 28

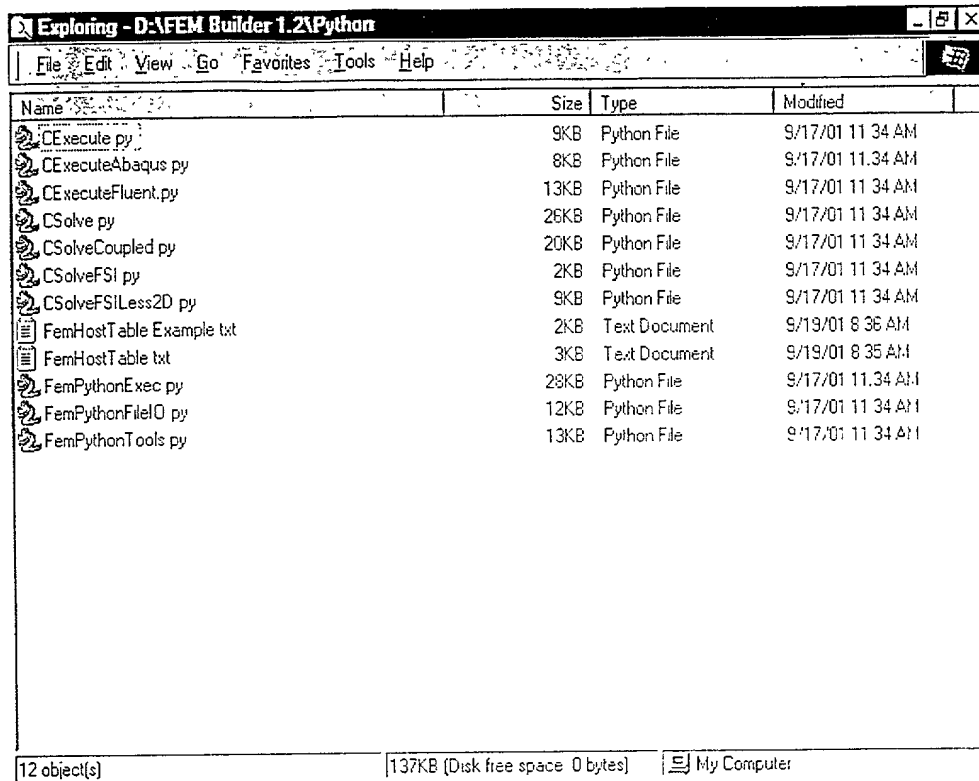


FIG. 29

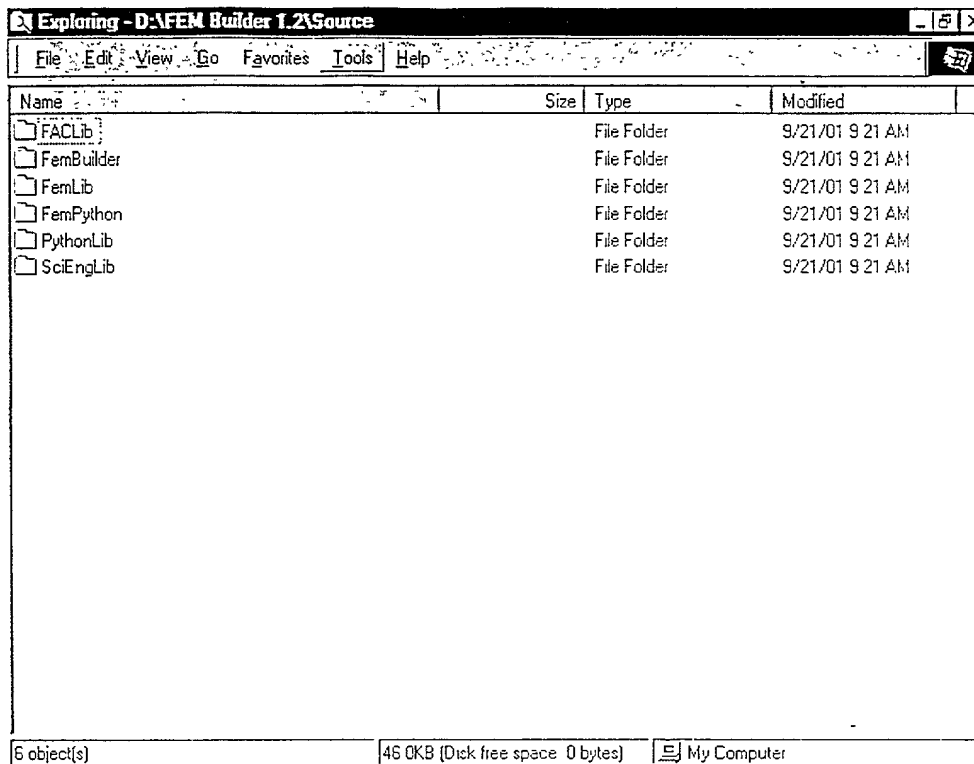


FIG. 30

Exploring - D:\FEM Builder 1.2\Source\FACLib

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
ArbArray.hpp	10KB	HPP File	9/17/01 11:30 AM
ArbBdySeg.hpp	6KB	HPP File	9/17/01 11:30 AM
ArbBSpline2D.cpp	24KB	CPP File	9/17/01 11:30 AM
ArbBSpline2D.hpp	8KB	HPP File	9/17/01 11:30 AM
ArbCoord2D.hpp	12KB	HPP File	9/17/01 11:30 AM
ArbFeasableRegion.cpp	10KB	CPP File	9/17/01 11:30 AM
ArbFeasableRegion.hpp	5KB	HPP File	9/17/01 11:30 AM
ArbGeom2DMixIn.cpp	10KB	CPP File	9/17/01 11:30 AM
ArbGeom2DMixIn.hpp	2KB	HPP File	9/17/01 11:30 AM
ArbHashTable.hpp	35KB	HPP File	9/17/01 11:30 AM
ArbHeap.hpp	16KB	HPP File	9/17/01 11:30 AM
ArbKDTree2D.cpp	16KB	CPP File	9/17/01 11:30 AM
ArbKDTree2D.hpp	9KB	HPP File	9/17/01 11:30 AM
ArbMsh.hpp	5KB	HPP File	9/17/01 11:30 AM
ArbMshCleanup.cpp	31KB	CPP File	9/17/01 11:30 AM
ArbMshCrackRegion2D.cpp	68KB	CPP File	9/17/01 11:30 AM
ArbMshCrackRegion2D.hpp	50KB	HPP File	9/17/01 11:30 AM
ArbMshEdgeList.cpp	86KB	CPP File	9/17/01 11:30 AM
ArbMshEdgeList.hpp	28KB	HPP File	9/17/01 11:30 AM
ArbMshQuad2D.cpp	179KB	CPP File	9/17/01 11:30 AM
ArbMshRegion2D.cpp	102KB	CPP File	9/17/01 11:30 AM
ArbMshRegion2D.hpp	62KB	HPP File	9/17/01 11:30 AM
ArbMshSmooth2D.cpp	51KB	CPP File	9/17/01 11:30 AM

37 object(s) 1.33MB (Disk free space 0 bytes) My Computer

FIG. 31

Exploring - D:\FEM Builder 1.2\Source\FACLib

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
ArbMshCrackRegion2D.cpp	68KB	CPP File	9/17/01 11:30 AM
ArbMshCrackRegion2D.hpp	50KB	HPP File	9/17/01 11:30 AM
ArbMshEdgeList.cpp	86KB	CPP File	9/17/01 11:30 AM
ArbMshEdgeList.hpp	28KB	HPP File	9/17/01 11:30 AM
ArbMshQuad2D.cpp	179KB	CPP File	9/17/01 11:30 AM
ArbMshRegion2D.cpp	102KB	CPP File	9/17/01 11:30 AM
ArbMshRegion2D.hpp	62KB	HPP File	9/17/01 11:30 AM
ArbMshSmooth2D.cpp	51KB	CPP File	9/17/01 11:30 AM
ArbMshSmooth2D.hpp	18KB	HPP File	9/17/01 11:30 AM
ArbMshTopo2D.cpp	92KB	CPP File	9/17/01 11:30 AM
ArbMshTopo2D.hpp	54KB	HPP File	9/17/01 11:30 AM
ArbQuadTree.cpp	28KB	CPP File	9/17/01 11:30 AM
ArbQuadTree.hpp	14KB	HPP File	9/17/01 11:30 AM
ArbQueue.hpp	8KB	HPP File	9/17/01 11:30 AM
ArbRectangle.hpp	3KB	HPP File	9/17/01 11:30 AM
ArbRmshRegion2D.cpp	286KB	CPP File	9/17/01 11:30 AM
ArbRmshRegion2D.hpp	15KB	HPP File	9/17/01 11:30 AM
ArbSet.cpp	25KB	CPP File	9/17/01 11:30 AM
ArbSet.hpp	8KB	HPP File	9/17/01 11:30 AM
ArbSmallSet.hpp	4KB	HPP File	9/17/01 11:30 AM
FACLib.dsp	6KB	DSP File	9/17/01 11:30 AM
FacLib.dsw	1KB	DSW File	9/17/01 11:30 AM

37 object(s) 1.33MB (Disk free space 0 bytes) My Computer

FIG. 32

Exploring - D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
res		File Folder	9/21/01 9:21 AM
CCoordinateInput.cpp	9KB	CPP File	9/17/01 11:31 AM
CCoordinateInput.h	2KB	H File	9/17/01 11:31 AM
CFemDBUtil.cpp	8KB	CPP File	9/17/01 11:31 AM
CFemDBUtil.h	1KB	H File	9/17/01 11:31 AM
CGridControl.cpp	13KB	CPP File	9/17/01 11:31 AM
CGridControl.h	4KB	H File	9/17/01 11:31 AM
CGridInput.cpp	15KB	CPP File	9/17/01 11:31 AM
CGridInput.h	6KB	H File	9/17/01 11:31 AM
CheckCoincidenceDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
CheckCoincidenceDlg.h	4KB	H File	9/17/01 11:31 AM
CheckDistortionDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
CheckDistortionDlg.h	2KB	H File	9/17/01 11:31 AM
ChildFrm.cpp	2KB	CPP File	9/17/01 11:31 AM
ChildFrm.h	2KB	H File	9/17/01 11:31 AM
CListFileMFC.cpp	3KB	CPP File	9/17/01 11:31 AM
CListFileMFC.h	2KB	H File	9/17/01 11:31 AM
ColorDlg.cpp	9KB	CPP File	9/17/01 11:31 AM
ColorDlg.h	3KB	H File	9/17/01 11:31 AM
CopyMatPropertyDlg.cpp	8KB	CPP File	9/17/01 11:31 AM
CopyMatPropertyDlg.h	3KB	H File	9/17/01 11:31 AM
CreateArcDlg.cpp	14KB	CPP File	9/17/01 11:31 AM
CreateArcDlg.h	3KB	H File	9/17/01 11:31 AM

320 object(s) 3 31MB (Disk free space: 0 bytes) My Computer

FIG. 33

Exploring - D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CreateBCDlg.h	11KB	H File	9/17/01 11:31 AM
CreateBCFluid.cpp	22KB	CPP File	9/17/01 11:31 AM
CreateBCFluid.h	9KB	H File	9/17/01 11:31 AM
CreateBCInterpolateDlg.cpp	11KB	CPP File	9/18/01 12:26 PM
CreateBCInterpolateDlg.h	4KB	H File	9/17/01 11:31 AM
CreateBCIsentropicDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
CreateBCIsentropicDlg.h	3KB	H File	9/17/01 11:31 AM
CreateBCTabular.cpp	9KB	CPP File	9/17/01 11:31 AM
CreateBCTabular.h	3KB	H File	9/17/01 11:31 AM
CreateChemReactionDlg.cpp	5KB	CPP File	9/17/01 11:31 AM
CreateChemReactionDlg.h	2KB	H File	9/17/01 11:31 AM
CreateChemSpeciesDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
CreateChemSpeciesDlg.h	2KB	H File	9/17/01 11:31 AM
CreateCircleDlg.cpp	10KB	CPP File	9/17/01 11:31 AM
CreateCircleDlg.h	3KB	H File	9/17/01 11:31 AM
CreateConstraintDlg.cpp	9KB	CPP File	9/17/01 11:31 AM
CreateConstraintDlg.h	4KB	H File	9/17/01 11:31 AM
CreateCurveOffsetDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
CreateCurveOffsetDlg.h	3KB	H File	9/17/01 11:31 AM
CreateGroupDlg.cpp	9KB	CPP File	9/17/01 11:31 AM
CreateGroupDlg.h	3KB	H File	9/17/01 11:31 AM
CreateInitialConditionsDlg.cpp	22KB	CPP File	9/17/01 11:31 AM
CreateInitialConditionsDlg.h	8KB	H File	9/17/01 11:31 AM

320 object(s) 3 31MB (Disk free space: 0 bytes) My Computer

FIG. 34

200575-06001

Name	Size	Type	Modified
CreateLineDlg.h	3KB	H File	9/17/01 11:31 AM
CreateNodeDlg.cpp	2KB	CPP File	9/17/01 11:31 AM
CreateNodeDlg.h	2KB	H File	9/17/01 11:31 AM
CreatePointBetweenDlg.cpp	12KB	CPP File	9/17/01 11:31 AM
CreatePointBetweenDlg.h	3KB	H File	9/17/01 11:31 AM
CreatePointCoordinateDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
CreatePointCoordinateDlg.h	3KB	H File	9/17/01 11:31 AM
CreatePointOnCurveDlg.cpp	15KB	CPP File	9/17/01 11:31 AM
CreatePointOnCurveDlg.h	3KB	H File	9/17/01 11:31 AM
CreateSplineDlg.cpp	18KB	CPP File	9/17/01 11:31 AM
CreateSplineDlg.h	3KB	H File	9/17/01 11:31 AM
CreateSurfaceBoundaryDlg.cpp	8KB	CPP File	9/17/01 11:31 AM
CreateSurfaceBoundaryDlg.h	2KB	H File	9/17/01 11:31 AM
CreateSurfaceExtrudeDlg.cpp	13KB	CPP File	9/17/01 11:31 AM
CreateSurfaceExtrudeDlg.h	3KB	H File	9/17/01 11:31 AM
CreateSurfaceRevolveDlg.cpp	12KB	CPP File	9/17/01 11:31 AM
CreateSurfaceRevolveDlg.h	3KB	H File	9/17/01 11:31 AM
CreateSurfaceSweepDlg.cpp	7KB	CPP File	9/17/01 11:31 AM
CreateSurfaceSweepDlg.h	3KB	H File	9/17/01 11:31 AM
CreateSystemDlg.cpp	12KB	CPP File	9/17/01 11:31 AM
CreateSystemDlg.h	3KB	H File	9/17/01 11:31 AM
CreateVolumeBoundaryDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
CreateVolumeBoundaryDlg.h	2KB	H File	9/17/01 11:31 AM

320 object(s) 3 31MB (Disk free space: 0 bytes) My Computer

FIG. 35

Name	Size	Type	Modified
CreateVolumeExtrudeDlg.cpp	11KB	CPP File	9/17/01 11:31 AM
CreateVolumeExtrudeDlg.h	3KB	H File	9/17/01 11:31 AM
CreateVolumeRevolveDlg.cpp	10KB	CPP File	9/17/01 11:31 AM
CreateVolumeRevolveDlg.h	3KB	H File	9/17/01 11:31 AM
CreateVolumeSweepDlg.cpp	2KB	CPP File	9/17/01 11:31 AM
CreateVolumeSweepDlg.h	2KB	H File	9/17/01 11:31 AM
CWizardPage.cpp	2KB	CPP File	9/17/01 11:31 AM
CWizardPage.h	2KB	H File	9/17/01 11:31 AM
CWizardSheet.cpp	10KB	CPP File	9/17/01 11:31 AM
CWizardSheet.h	2KB	H File	9/17/01 11:31 AM
DefineVectorDlg.cpp	14KB	CPP File	9/17/01 11:31 AM
DefineVectorDlg.h	3KB	H File	9/17/01 11:31 AM
DeformMeshDlg.cpp	4KB	CPP File	9/17/01 11:31 AM
DeformMeshDlg.h	2KB	H File	9/17/01 11:31 AM
DisplayOptionDlg.cpp	25KB	CPP File	9/17/01 3:00 PM
DisplayOptionDlg.h	6KB	H File	9/17/01 11:31 AM
EditBCCColorDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
EditBCCColorDlg.h	3KB	H File	9/17/01 11:31 AM
EditColorPS.cpp	9KB	CPP File	9/17/01 11:31 AM
EditColorPS.h	3KB	H File	9/17/01 11:31 AM
EditCurveSplitDlg.cpp	11KB	CPP File	9/17/01 11:31 AM
EditCurveSplitDlg.h	3KB	H File	9/17/01 11:31 AM
EditCurveSubdivisionDlg.cpp	9KB	CPP File	9/17/01 11:31 AM

320 object(s) 3 31MB (Disk free space: 0 bytes) My Computer

FIG. 36

Exploring - D:\FEM Builder 1.2\Source\FemBuilder

Name	Size	Type	Modified
EditCurveSubdivisionDlg.h	3KB	H File	9/17/01 11:31 AM
EditCurveTrimDlg.cpp	9KB	CPP File	9/17/01 11:31 AM
EditCurveTrimDlg.h	3KB	H File	9/17/01 11:31 AM
EditElementAttributesDlg.cpp	14KB	CPP File	9/17/01 11:31 AM
EditElementAttributesDlg.h	4KB	H File	9/17/01 11:31 AM
EditElementDlg.cpp	18KB	CPP File	9/17/01 11:31 AM
EditElementDlg.h	4KB	H File	9/17/01 11:31 AM
EditElementOrientDlg.cpp	45KB	CPP File	9/17/01 11:31 AM
EditElementOrientDlg.h	15KB	H File	9/17/01 11:31 AM
EditGravityDlg.cpp	2KB	CPP File	9/17/01 11:31 AM
EditGravityDlg.h	2KB	H File	9/17/01 11:31 AM
EditMeshAttributeDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
EditMeshAttributeDlg.h	3KB	H File	9/17/01 11:31 AM
EditMultipleElementsDlg.cpp	2KB	CPP File	9/17/01 11:31 AM
EditMultipleElementsDlg.h	2KB	H File	9/17/01 11:31 AM
EditNodeDlg.cpp	11KB	CPP File	9/17/01 11:31 AM
EditNodeDlg.h	3KB	H File	9/17/01 11:31 AM
EditNodeDSystemDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
EditNodeDSystemDlg.h	3KB	H File	9/17/01 11:31 AM
EditWorkPlaneDlg.cpp	10KB	CPP File	9/17/01 11:31 AM
EditWorkPlaneDlg.h	3KB	H File	9/17/01 11:31 AM
EditWorkPlaneMoveDlg.cpp	11KB	CPP File	9/17/01 11:31 AM
EditWorkPlaneMoveDlg.h	3KB	H File	9/17/01 11:31 AM

320 object(s) 3 31MB (Disk free space: 0 bytes) My Computer

FIG. 37

Exploring - D:\FEM Builder 1.2\Source\FemBuilder

Name	Size	Type	Modified
error.wav	25KB	Wave Sound	8/3/96 1:00 AM
ExecuteAbaqusDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
ExecuteAbaqusDlg.h	3KB	H File	9/17/01 11:31 AM
ExecuteFluentDlg.cpp	8KB	CPP File	9/17/01 11:31 AM
ExecuteFluentDlg.h	3KB	H File	9/17/01 11:31 AM
ExecuteParameterPP.cpp	20KB	CPP File	9/17/01 11:31 AM
ExecuteParameterPP.h	5KB	H File	9/17/01 11:31 AM
Fem.aps	621KB	APS File	9/20/01 10:36 AM
Fem.cpp	16KB	CPP File	9/20/01 11:07 AM
Fem.dsp	30KB	DSP File	9/17/01 11:31 AM
Fem.dsw	2KB	DSW File	9/17/01 11:31 AM
Fem.h	3KB	H File	9/20/01 10:37 AM
Fem.rc	353KB	RC File	9/20/01 10:36 AM
FemDoc.cpp	44KB	CPP File	9/17/01 11:31 AM
FemDoc.h	17KB	H File	9/17/01 11:31 AM
FemDocBlank.cpp	4KB	CPP File	9/17/01 11:31 AM
FemDocCreateBC.cpp	11KB	CPP File	9/17/01 11:31 AM
FemDocDelete.cpp	8KB	CPP File	9/17/01 11:31 AM
FemDocEditBC.cpp	2KB	CPP File	9/17/01 11:31 AM
FemDocFEM.cpp	3KB	CPP File	9/17/01 11:31 AM
FemDocGeometry.cpp	9KB	CPP File	9/17/01 11:31 AM
FemDocInterfaces.cpp	6KB	CPP File	9/17/01 11:31 AM
FemDocList.cpp	10KB	CPP File	9/17/01 11:31 AM

320 object(s) 3 31MB (Disk free space: 0 bytes) My Computer

FIG. 38

2005752-060002

Exploring - D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FemDocMatProp.cpp	6KB	CPP File	9/17/01 11 31 AM
FemDocOrient.cpp	1KB	CPP File	9/17/01 11 31 AM
FemDocPost.cpp	4KB	CPP File	9/17/01 11 31 AM
FemDocTools.cpp	4KB	CPP File	9/17/01 11 31 AM
FemUserMessages.h	1KB	H File	9/17/01 11 31 AM
FemView.cpp	52KB	CPP File	9/21/01 7 06 AM
FemView.h	11KB	H File	9/17/01 11 31 AM
FilterOptionsDlg.cpp	5KB	CPP File	9/17/01 11 31 AM
FilterOptionsDlg.h	2KB	H File	9/17/01 11 31 AM
FlowModelParameters.cpp	17KB	CPP File	9/17/01 11 31 AM
FlowModelParameters.h	5KB	H File	9/17/01 11 31 AM
FractureMechanicsDlg.cpp	4KB	CPP File	9/17/01 11 31 AM
FractureMechanicsDlg.h	2KB	H File	9/17/01 11 31 AM
GPropertySheetFun.cpp	3KB	CPP File	9/17/01 11 31 AM
GPropertySheetFun.h	1KB	H File	9/17/01 11 31 AM
Insert2DFlawDlg.cpp	15KB	CPP File	9/17/01 11 31 AM
Insert2DFlawDlg.h	5KB	H File	9/17/01 11 31 AM
Insert2DFlawEllipseDlg.cpp	8KB	CPP File	9/17/01 11 31 AM
Insert2DFlawEllipseDlg.h	2KB	H File	9/17/01 11 31 AM
Interface.cpp	41KB	CPP File	9/17/01 11 31 AM
Interface.h	3KB	H File	9/17/01 11 31 AM
InterpolateProjectionDlg.cpp	9KB	CPP File	9/17/01 11 31 AM
InterpolateProjectionDlg.h	3KB	H File	9/17/01 11 31 AM

320 object(s) 3 31MB (Disk free space 0 bytes) My Computer

FIG. 39

Exploring - D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
listFileDialog.cpp	5KB	CPP File	9/17/01 11 31 AM
listFileDialog.h	2KB	H File	9/17/01 11 31 AM
ListResultValuesDlg.cpp	7KB	CPP File	9/17/01 11 31 AM
ListResultValuesDlg.h	3KB	H File	9/17/01 11 31 AM
MainFrm.cpp	17KB	CPP File	9/20/01 10 37 AM
MainFrm.h	3KB	H File	9/17/01 11 31 AM
MaterialPropertyDlg.cpp	20KB	CPP File	9/17/01 11 31 AM
MaterialPropertyDlg.h	5KB	H File	9/17/01 11 31 AM
MeshDlg.cpp	42KB	CPP File	9/17/01 11 31 AM
MeshDlg.h	10KB	H File	9/17/01 11 31 AM
ModelFileNamePP.cpp	12KB	CPP File	9/17/01 11 31 AM
ModelFileNamePP.h	4KB	H File	9/17/01 11 31 AM
ModelInfoDlg.cpp	17KB	CPP File	9/17/01 11 31 AM
ModelInfoDlg.h	6KB	H File	9/17/01 11 31 AM
MoveCopyDlg.cpp	34KB	CPP File	9/17/01 11 31 AM
MoveCopyDlg.h	10KB	H File	9/17/01 11 31 AM
OptionsDlg.cpp	21KB	CPP File	9/18/01 12 25 PM
OptionsDlg.h	5KB	H File	9/17/01 11 31 AM
OrientViewDlg.cpp	6KB	CPP File	9/21/01 7 06 AM
OrientViewDlg.h	4KB	H File	9/17/01 11 31 AM
PostContourDlg.cpp	17KB	CPP File	9/17/01 11 31 AM
PostContourDlg.h	4KB	H File	9/17/01 11 31 AM
PostDeformedDlg.cpp	13KB	CPP File	9/17/01 11 31 AM

320 object(s) 3 31MB (Disk free space 0 bytes) My Computer

FIG. 40

20000901 2540001

Exploring - D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
PostDeformedDlg.h	3KB	H File	9/17/01 11:31 AM
PostDlg.cpp	33KB	CPP File	9/21/01 7:06 AM
PostDlg.h	11KB	H File	9/17/01 11:31 AM
PostVectorDlg.cpp	17KB	CPP File	9/17/01 11:31 AM
PostVectorDlg.h	4KB	H File	9/17/01 11:31 AM
PostView.cpp	15KB	CPP File	9/17/01 11:31 AM
PostView.h	4KB	H File	9/17/01 11:31 AM
PostXYAnalysisResultDlg.cpp	30KB	CPP File	9/17/01 11:31 AM
PostXYAnalysisResultDlg.h	7KB	H File	9/17/01 11:31 AM
PostXYPlotParamDlg.cpp	35KB	CPP File	9/17/01 11:31 AM
PostXYPlotParamDlg.h	9KB	H File	9/17/01 11:31 AM
PostXYPlotView.cpp	2KB	CPP File	9/17/01 11:31 AM
PostXYPlotView.h	2KB	H File	9/17/01 11:31 AM
PostXYTimeHistoryDlg.cpp	21KB	CPP File	9/17/01 11:31 AM
PostXYTimeHistoryDlg.h	4KB	H File	9/17/01 11:31 AM
ReadAbaqusDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadAbaqusDlg.h	2KB	H File	9/17/01 11:31 AM
ReadAnsysDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadAnsysDlg.h	2KB	H File	9/17/01 11:31 AM
ReadAscharDlg.cpp	4KB	CPP File	9/17/01 11:31 AM
ReadAscharDlg.h	3KB	H File	9/17/01 11:31 AM
ReadCCMDlg.cpp	4KB	CPP File	9/17/01 11:31 AM
ReadCCMDlg.h	3KB	H File	9/17/01 11:31 AM

320 object(s) 331MB (Disk free space: 0 bytes) My Computer

FIG. 41

Exploring - D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
ReadCDCADlg.cpp	4KB	CPP File	9/17/01 11:31 AM
ReadCDCADlg.h	3KB	H File	9/17/01 11:31 AM
ReadFluentDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadFluentDlg.h	2KB	H File	9/17/01 11:31 AM
ReadGridGenDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadGridGenDlg.h	2KB	H File	9/17/01 11:31 AM
ReadIdeaMSDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadIdeaMSDlg.h	2KB	H File	9/17/01 11:31 AM
ReadPatranDlg.cpp	8KB	CPP File	9/17/01 11:32 AM
ReadPatranDlg.h	3KB	H File	9/17/01 11:32 AM
ReadRecessDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadRecessDlg.h	2KB	H File	9/17/01 11:32 AM
ReadSharpDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadSharpDlg.h	2KB	H File	9/17/01 11:32 AM
ReadSindaDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadSindaDlg.h	2KB	H File	9/17/01 11:32 AM
ReadSinGenDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadSinGenDlg.h	2KB	H File	9/17/01 11:32 AM
ReadTexChem.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadTexChem.h	2KB	H File	9/17/01 11:32 AM
RefineMeshAdaptiveDlg.cpp	19KB	CPP File	9/20/01 10:38 AM
RefineMeshAdaptiveDlg.h	5KB	H File	9/17/01 11:32 AM
RefineMeshSpecifiedDlg.cpp	8KB	CPP File	9/17/01 11:32 AM

320 object(s) 331MB (Disk free space: 0 bytes) My Computer

FIG. 42

Exploring - D:\FEM Builder 1.2\Source\FemBuilder				
File Edit View Go Favorites Tools Help				
Name	Size	Type	Modified	
RefineMeshSpecifiedDlg.h	3KB	H File	9/17/01 11:32 AM	
resource.fd	56KB	FD File	9/20/01 10:36 AM	
resource.h	39KB	H File	9/20/01 10:36 AM	
ResultInterpolationDlg.cpp	13KB	CPP File	9/17/01 11:32 AM	
ResultInterpolationDlg.h	5KB	H File	9/17/01 11:32 AM	
ResultSuperpositionDlg.cpp	6KB	CPP File	9/17/01 11:32 AM	
ResultSuperpositionDlg.h	3KB	H File	9/17/01 11:32 AM	
SaveViewOrientationDlg.cpp	2KB	CPP File	9/17/01 11:32 AM	
SaveViewOrientationDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectBCDlg.cpp	9KB	CPP File	9/17/01 11:32 AM	
SelectBCDlg.h	3KB	H File	9/17/01 11:32 AM	
SelectBCSetsDlg.cpp	3KB	CPP File	9/17/01 11:32 AM	
SelectBCSetsDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectCurveDlg.cpp	9KB	CPP File	9/17/01 11:32 AM	
SelectCurveDlg.h	3KB	H File	9/17/01 11:32 AM	
SelectDlg.cpp	5KB	CPP File	9/17/01 11:32 AM	
SelectDlg.h	5KB	H File	9/17/01 11:32 AM	
SelectElementDlg.cpp	13KB	CPP File	9/17/01 11:32 AM	
SelectElementDlg.h	3KB	H File	9/17/01 11:32 AM	
SelectFaceDlg.cpp	8KB	CPP File	9/17/01 11:32 AM	
SelectFaceDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectGroupDlg.cpp	8KB	CPP File	9/17/01 11:32 AM	
SelectGroupDlg.h	3KB	H File	9/17/01 11:32 AM	
320 object(s) 3 31MB (Disk free space: 0 bytes) My Computer				

FIG. 43

Exploring - D:\FEM Builder 1.2\Source\FemBuilder				
File Edit View Go Favorites Tools Help				
Name	Size	Type	Modified	
SelectMaterialDlg.cpp	8KB	CPP File	9/17/01 11:32 AM	
SelectMaterialDlg.h	3KB	H File	9/17/01 11:32 AM	
SelectMaterialDsDlg.cpp	3KB	CPP File	9/17/01 11:32 AM	
SelectMaterialDsDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectModelDlg.cpp	3KB	CPP File	9/17/01 11:32 AM	
SelectModelDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectNodeDlg.cpp	13KB	CPP File	9/17/01 11:32 AM	
SelectNodeDlg.h	3KB	H File	9/17/01 11:32 AM	
SelectPointDlg.cpp	9KB	CPP File	9/17/01 11:32 AM	
SelectPointDlg.h	3KB	H File	9/17/01 11:32 AM	
SelectReactionsDlg.cpp	4KB	CPP File	9/17/01 11:32 AM	
SelectReactionsDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectResultDlg.cpp	16KB	CPP File	9/17/01 11:32 AM	
SelectResultDlg.h	4KB	H File	9/17/01 11:32 AM	
SelectSpeciesDlg.cpp	4KB	CPP File	9/17/01 11:32 AM	
SelectSpeciesDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectSurfaceByTypeDlg.cpp	3KB	CPP File	9/17/01 11:32 AM	
SelectSurfaceByTypeDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectSurfaceDlg.cpp	10KB	CPP File	9/17/01 11:32 AM	
SelectSurfaceDlg.h	3KB	H File	9/17/01 11:32 AM	
SelectSystemDlg.cpp	6KB	CPP File	9/17/01 11:32 AM	
SelectSystemDlg.h	2KB	H File	9/17/01 11:32 AM	
SelectVolumeDlg.cpp	8KB	CPP File	9/17/01 11:32 AM	
320 object(s) 3 31MB (Disk free space: 0 bytes) My Computer				

FIG. 44

20250925 100526030

Name	Size	Type	Modified
SelectVolumeDlg.h	3KB	H File	9/17/01 11:32 AM
SmoothMeshDlg.cpp	7KB	CPP File	9/17/01 11:32 AM
SmoothMeshDlg.h	3KB	H File	9/17/01 11:32 AM
SplashWnd.cpp	4KB	CPP File	9/17/01 11:32 AM
SplashWnd.h	2KB	H File	9/17/01 11:32 AM
Splash16.bmp	81KB	Bitmap Image	9/17/01 11:32 AM
StdAfx.cpp	1KB	CPP File	9/17/01 11:32 AM
StdAfx.h	2KB	H File	9/17/01 11:32 AM
SubModelDlg.cpp	11KB	CPP File	9/17/01 11:32 AM
SubModelDlg.h	4KB	H File	9/17/01 11:32 AM
SweepDlg.cpp	8KB	CPP File	9/17/01 11:32 AM
SweepDlg.h	3KB	H File	9/17/01 11:32 AM
ThermalAblationDlg.cpp	12KB	CPP File	9/17/01 11:32 AM
ThermalAblationDlg.h	4KB	H File	9/17/01 11:32 AM
TranslateDlg.cpp	2KB	CPP File	9/17/01 11:32 AM
TranslateDlg.h	2KB	H File	9/17/01 11:32 AM
UnitSystemPP.cpp	6KB	CPP File	9/17/01 11:32 AM
UnitSystemPP.h	2KB	H File	9/17/01 11:32 AM
WriteAbaqusDlg.cpp	18KB	CPP File	9/17/01 11:32 AM
WriteAbaqusDlg.h	7KB	H File	9/17/01 11:32 AM
WriteAnsysDlg.cpp	2KB	CPP File	9/17/01 11:32 AM
WriteAnsysDlg.h	2KB	H File	9/17/01 11:32 AM
WriteCCMDlg.cpp	8KB	CPP File	9/17/01 3:00 PM

320 object(s) 331MB (Disk free space: 0 bytes) My Computer

FIG. 45

Name	Size	Type	Modified
WriteAnsysDlg.cpp	2KB	CPP File	9/17/01 11:32 AM
WriteAnsysDlg.h	2KB	H File	9/17/01 11:32 AM
WriteCCMDlg.cpp	8KB	CPP File	9/17/01 3:00 PM
WriteCCMDlg.h	3KB	H File	9/17/01 11:32 AM
WriteCDCADlg.cpp	8KB	CPP File	9/17/01 3:00 PM
WriteCDCADlg.h	3KB	H File	9/17/01 11:32 AM
WriteFluentDlg.cpp	22KB	CPP File	9/17/01 11:32 AM
WriteFluentDlg.h	9KB	H File	9/17/01 11:32 AM
WriteIdeasMSDlg.cpp	7KB	CPP File	9/17/01 11:32 AM
WriteIdeasMSDlg.h	3KB	H File	9/17/01 11:32 AM
WritePatranDlg.cpp	8KB	CPP File	9/17/01 11:32 AM
WritePatranDlg.h	3KB	H File	9/17/01 11:32 AM
WriteRecessDlg.cpp	26KB	CPP File	9/17/01 11:32 AM
WriteRecessDlg.h	7KB	H File	9/17/01 11:32 AM
WriteSindaDlg.cpp	14KB	CPP File	9/17/01 11:32 AM
WriteSindaDlg.h	6KB	H File	9/17/01 11:32 AM
WriteTexChem.cpp	7KB	CPP File	9/17/01 11:32 AM
WriteTexChem.h	4KB	H File	9/17/01 11:32 AM
XYPlotParmDlg.cpp	40KB	CPP File	9/21/01 7:06 AM
XYPlotParmDlg.h	9KB	H File	9/17/01 11:32 AM
XYPlotView.cpp	48KB	CPP File	9/21/01 7:06 AM
XYPlotView.h	8KB	H File	9/17/01 11:32 AM

320 object(s) 331MB (Disk free space: 0 bytes) My Computer

FIG. 46

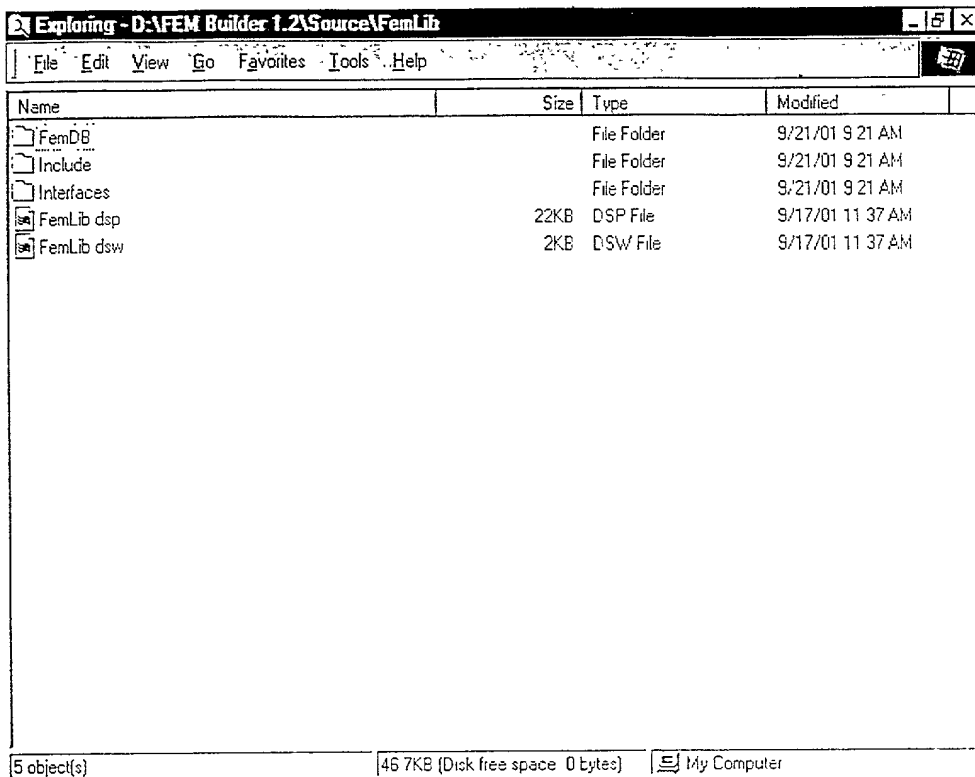


FIG. 47

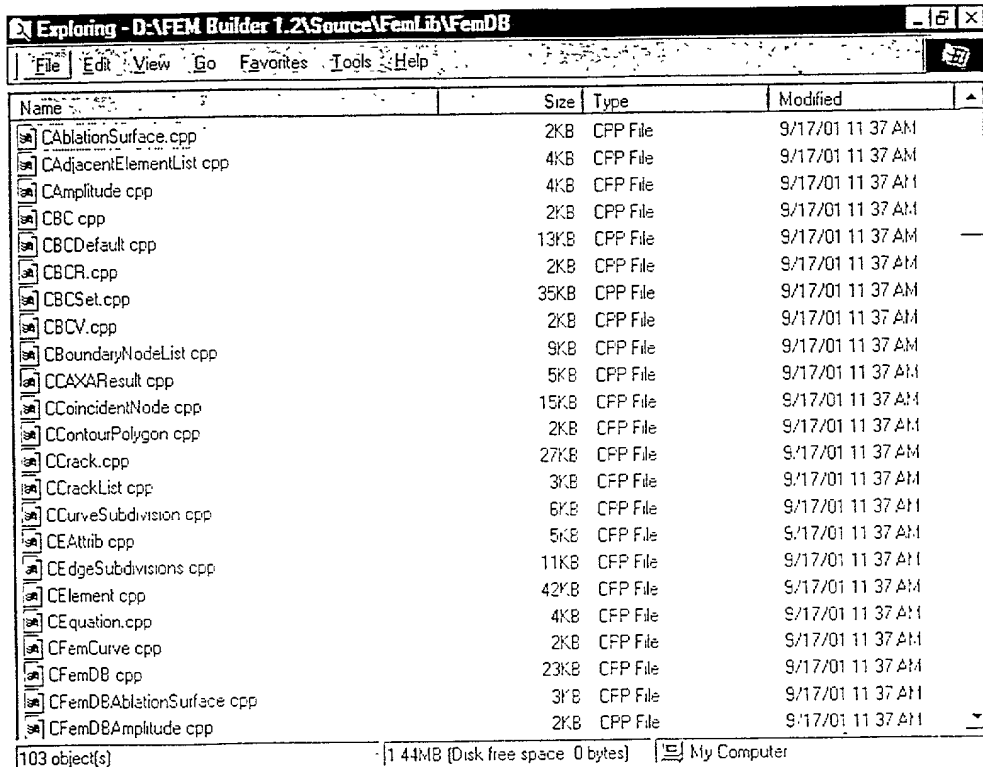


FIG. 48

Exploring - D:\FEM Builder 1.2\Source\FemLib\FemDB

Name	Size	Type	Modified
CFemDBBC.cpp	28KB	CPP File	9/17/01 11 37 AM
CFemDBBCDefaults.cpp	3KB	CPP File	9/17/01 11 37 AM
CFemDBConventions.cpp	8KB	CPP File	9/17/01 11 37 AM
CFemDBResult.cpp	3KB	CPP File	9/17/01 11 37 AM
CFemDBCurve.cpp	21KB	CPP File	9/17/01 11 37 AM
CFemDBElement.cpp	17KB	CPP File	9/17/01 11 37 AM
CFemDBElementOrient.cpp	9KB	CPP File	9/17/01 11 37 AM
CFemDBEquation.cpp	17KB	CPP File	9/17/01 11 37 AM
CFemDBResult.cpp	3KB	CPP File	9/17/01 11 37 AM
CFemDBGroup.cpp	9KB	CPP File	9/17/01 11 37 AM
CFemDBInitialConditions.cpp	4KB	CPP File	9/17/01 11 37 AM
CFemDBMaterial.cpp	7KB	CPP File	9/17/01 11 37 AM
CFemDBMatID.cpp	11KB	CPP File	9/17/01 11 37 AM
CFemDBMesh.cpp	10KB	CPP File	9/17/01 11 37 AM
CFemDBNode.cpp	6KB	CPP File	9/17/01 11 37 AM
CFemDBNResult.cpp	3KB	CPP File	9/17/01 11 37 AM
CFemDBPip.cpp	6KB	CPP File	9/17/01 11 37 AM
CFemDBPt.cpp	4KB	CPP File	9/17/01 11 37 AM
CFemDBResult.cpp	41KB	CPP File	9/17/01 11 37 AM
CFemDBSelect.cpp	62KB	CPP File	9/17/01 11 37 AM
CFemDBSet.cpp	9KB	CPP File	9/17/01 11 37 AM
CFemDBSubset.cpp	2KB	CPP File	9/17/01 11 37 AM
CFemDBSurface.cpp	26KB	CPP File	9/17/01 11 37 AM

103 object(s) 1 44MB (Disk free space: 0 bytes) My Computer

FIG. 49

Exploring - D:\FEM Builder 1.2\Source\FemLib\FemDB

Name	Size	Type	Modified
CFemDBSystem.cpp	7KB	CPP File	9/17/01 11 37 AM
CFemDBVolume.cpp	14KB	CPP File	9/17/01 11 37 AM
CFemDO.cpp	6KB	CPP File	9/17/01 11 37 AM
CFemGeometry.cpp	2KB	CPP File	9/17/01 11 37 AM
CFemOptions.cpp	3KB	CPP File	9/17/01 11 37 AM
CFlowModel.cpp	9KB	CPP File	9/17/01 11 37 AM
CFractureCCI.cpp	6KB	CPP File	9/17/01 11 37 AM
CFractureCOD.cpp	7KB	CPP File	9/17/01 11 37 AM
CFractureIntegral.cpp	21KB	CPP File	9/17/01 11 37 AM
CFractureIntegralDPEnergyE.cpp	2KB	CPP File	9/17/01 11 37 AM
CFractureIntegralDPEnergyI.cpp	4KB	CPP File	9/17/01 11 37 AM
CFractureMechanics.cpp	2KB	CPP File	9/17/01 11 37 AM
CGPDistortionCheck.cpp	2KB	CPP File	9/17/01 11 37 AM
CGroup.cpp	7KB	CPP File	9/17/01 11 37 AM
CInsert2DFlaw.cpp	41KB	CPP File	9/17/01 11 37 AM
CIsentropicFlow.cpp	4KB	CPP File	9/17/01 11 37 AM
CMesh.cpp	2KB	CPP File	9/17/01 11 37 AM
CMesh2D.cpp	24KB	CPP File	9/17/01 11 37 AM
CMesh3D.cpp	34KB	CPP File	9/17/01 11 37 AM
CMeshAttribute.cpp	3KB	CPP File	9/17/01 11 37 AM
CMeshElement2D.cpp	13KB	CPP File	9/17/01 11 37 AM
CMeshMapped2D.cpp	57KB	CPP File	9/17/01 11 37 AM
CMeshMapped3D.cpp	17KB	CPP File	9/17/01 11 37 AM

103 object(s) 1 44MB (Disk free space: 0 bytes) My Computer

FIG. 50

Exploring - D:\FEM Builder 1.2\Source\FemLib\FemDB

Name	Size	Type	Modified
CMeshSmooth.cpp	8KB	CPP File	9/17/01 11:37 AM
CMeshTrans3D.cpp	17KB	CPP File	9/17/01 11:37 AM
CMoveCopy.cpp	55KB	CPP File	9/17/01 11:37 AM
CNode.cpp	4KB	CPP File	9/17/01 11:37 AM
COrient.cpp	2KB	CPP File	9/17/01 11:37 AM
CPT.cpp	2KB	CPP File	9/17/01 11:37 AM
CQuadrant.cpp	19KB	CPP File	9/17/01 11:37 AM
CRefineMesh.cpp	87KB	CPP File	9/17/01 11:37 AM
CResult.cpp	43KB	CPP File	9/17/01 11:37 AM
CSindaAttrib.cpp	6KB	CPP File	9/17/01 11:37 AM
CSindaNetwork.cpp	37KB	CPP File	9/17/01 11:37 AM
CSubModel.cpp	15KB	CPP File	9/17/01 11:37 AM
CSweepModel.cpp	27KB	CPP File	9/17/01 11:37 AM
CThermalAblation.cpp	32KB	CPP File	9/17/01 11:37 AM
DrawFem.cpp	25KB	CPP File	9/17/01 11:37 AM
FemEntityType.cpp	9KB	CPP File	9/17/01 11:37 AM
GElementContour.cpp	29KB	CPP File	9/17/01 11:37 AM
GElementDistortion.cpp	9KB	CPP File	9/17/01 11:37 AM
GElementFun.cpp	16KB	CPP File	9/17/01 11:37 AM
GElementGInt.cpp	17KB	CPP File	9/17/01 11:37 AM
GElementInfo.cpp	42KB	CPP File	9/17/01 11:37 AM
GElementNCIP.cpp	27KB	CPP File	9/17/01 11:37 AM
GElementNCPP.cpp	10KB	CPP File	9/17/01 11:37 AM

103 object(s) 1.44MB (Disk free space: 0 bytes) My Computer

FIG. 51

Exploring - D:\FEM Builder 1.2\Source\FemLib\FemDB

Name	Size	Type	Modified
CSweepModel.cpp	27KB	CPP File	9/17/01 11:37 AM
CThermalAblation.cpp	32KB	CPP File	9/17/01 11:37 AM
DrawFem.cpp	25KB	CPP File	9/17/01 11:37 AM
FemEntityType.cpp	9KB	CPP File	9/17/01 11:37 AM
GElementContour.cpp	29KB	CPP File	9/17/01 11:37 AM
GElementDistortion.cpp	9KB	CPP File	9/17/01 11:37 AM
GElementFun.cpp	16KB	CPP File	9/17/01 11:37 AM
GElementGInt.cpp	17KB	CPP File	9/17/01 11:37 AM
GElementInfo.cpp	42KB	CPP File	9/17/01 11:37 AM
GElementNCIP.cpp	27KB	CPP File	9/17/01 11:37 AM
GElementNCPP.cpp	10KB	CPP File	9/17/01 11:37 AM
GElementNCVI.cpp	13KB	CPP File	9/17/01 11:37 AM
GElementOrient.cpp	3KB	CPP File	9/17/01 11:37 AM
GElementSF.cpp	17KB	CPP File	9/17/01 11:37 AM
GElementSFD.cpp	33KB	CPP File	9/17/01 11:37 AM
GElementSFDD.cpp	51KB	CPP File	9/17/01 11:37 AM
GMeshFun.cpp	8KB	CPP File	9/17/01 11:37 AM
GPointFun.cpp	2KB	CPP File	9/17/01 11:37 AM
GRdAnsSysRes.cpp	13KB	CPP File	9/17/01 11:37 AM
GSindaFun.cpp	2KB	CPP File	9/17/01 11:37 AM
ResultInterpolation.cpp	23KB	CPP File	9/17/01 11:37 AM
ResultSuperposition.cpp	10KB	CPP File	9/17/01 11:37 AM

103 object(s) 1.44MB (Disk free space: 0 bytes) My Computer

FIG. 52

Exploring - D:\FEM Builder 1.2\Source\FemLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CAblationSurface.h	2KB	H File	9/17/01 11:37 AM
CAdjacentElementList.h	2KB	H File	9/17/01 11:37 AM
CAmplitude.h	2KB	H File	9/17/01 11:37 AM
CBC.h	3KB	H File	9/17/01 11:37 AM
CBCDefault.h	5KB	H File	9/17/01 11:37 AM
CBCP.h	2KB	H File	9/17/01 11:37 AM
CBCSet.h	6KB	H File	9/17/01 11:37 AM
CBCV.h	1KB	H File	9/17/01 11:37 AM
CBoundaryNodeList.h	3KB	H File	9/17/01 11:37 AM
CCAXAResult.h	3KB	H File	9/17/01 11:37 AM
CCoincidentNode.h	3KB	H File	9/17/01 11:37 AM
CContourPolygon.h	2KB	H File	9/17/01 11:37 AM
CCrack.h	6KB	H File	9/17/01 11:37 AM
CCrackList.h	2KB	H File	9/17/01 11:37 AM
CCurveSubdivision.h	3KB	H File	9/17/01 11:37 AM
CEAttrb.h	2KB	H File	9/17/01 11:37 AM
CEdgeSubdivisions.h	2KB	H File	9/17/01 11:37 AM
CElement.h	15KB	H File	9/17/01 11:37 AM
CEquation.h	3KB	H File	9/17/01 11:37 AM
CFemCurve.h	2KB	H File	9/17/01 11:37 AM
CFemDB.h	39KB	H File	9/17/01 11:37 AM
CFemDBSet.h	2KB	H File	9/17/01 11:37 AM
CFemDO.h	3KB	H File	9/17/01 11:37 AM

113 object(s) 351KB (Disk free space: 0 bytes) My Computer

FIG. 53

Exploring - D:\FEM Builder 1.2\Source\FemLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CFemGeometry.h	3KB	H File	9/17/01 11:37 AM
CFemOptions.h	3KB	H File	9/17/01 11:37 AM
CFlowModel.h	4KB	H File	9/17/01 11:37 AM
CFractureCCI.h	2KB	H File	9/17/01 11:37 AM
CFractureCOD.h	2KB	H File	9/17/01 11:37 AM
CFractureIntegral.h	4KB	H File	9/17/01 11:37 AM
CFractureIntegralDPEnergyE.h	1KB	H File	9/17/01 11:37 AM
CFractureIntegralDPEnergyI.h	3KB	H File	9/17/01 11:37 AM
CFractureMechanics.h	1KB	H File	9/17/01 11:37 AM
CGPDistortionCheck.h	1KB	H File	9/17/01 11:37 AM
CGroup.h	4KB	H File	9/17/01 11:37 AM
CInsert2DFlaw.h	5KB	H File	9/17/01 11:37 AM
CIsentropicFlow.h	2KB	H File	9/17/01 11:37 AM
CMesh.h	3KB	H File	9/17/01 11:37 AM
CMesh2D.h	4KB	H File	9/17/01 11:37 AM
CMesh3D.h	5KB	H File	9/17/01 11:37 AM
CMeshAttribute.h	3KB	H File	9/17/01 11:37 AM
CMeshElement2D.h	4KB	H File	9/17/01 11:37 AM
CMeshMapped2D.h	7KB	H File	9/17/01 11:37 AM
CMeshMapped3D.h	4KB	H File	9/17/01 11:37 AM
CMeshSmooth.h	3KB	H File	9/17/01 11:37 AM
CMeshSubdivision.h	4KB	H File	9/17/01 11:37 AM
CMeshTrans3D.h	5KB	H File	9/17/01 11:37 AM

113 object(s) 351KB (Disk free space: 0 bytes) My Computer

FIG. 54

Exploring - D:\FEM Builder 1.2\Source\FemLib\Include

Name	Size	Type	Modified
CMoveCopy.h	5KB	H File	9/17/01 11:37 AM
CNode.h	2KB	H File	9/17/01 11:37 AM
COrient.h	2KB	H File	9/17/01 11:37 AM
CQuadrant.h	5KB	H File	9/17/01 11:37 AM
CRdCrackCombustionData.h	2KB	H File	9/17/01 11:37 AM
CRefineMesh.h	7KB	H File	9/17/01 11:37 AM
CResult.h	11KB	H File	9/17/01 11:37 AM
CSindaAttrib.h	2KB	H File	9/17/01 11:37 AM
CSindaNetwork.h	7KB	H File	9/17/01 11:37 AM
CSubModel.h	2KB	H File	9/17/01 11:37 AM
CWeepModel.h	3KB	H File	9/17/01 11:37 AM
CThermalAblation.h	3KB	H File	9/17/01 11:37 AM
CWrCrackCombustionData.h	2KB	H File	9/17/01 11:37 AM
CWrSindaData.h	3KB	H File	9/17/01 11:37 AM
FemEntityType.h	6KB	H File	9/17/01 11:37 AM
FemStdIn.h	2KB	H File	9/17/01 11:37 AM
GEElementContour.h	3KB	H File	9/17/01 11:37 AM
GEElementDistortion.h	2KB	H File	9/17/01 11:37 AM
GEElementFun.h	3KB	H File	9/17/01 11:37 AM
GEElementGInt.h	4KB	H File	9/17/01 11:37 AM
GEElementInfo.h	3KB	H File	9/17/01 11:37 AM
GEElementNCIP.h	3KB	H File	9/17/01 11:37 AM
GEElementNCP.h	2KB	H File	9/17/01 11:38 AM

113 object(s) 351KB (Disk free space: 0 bytes) My Computer

FIG. 55

Exploring - D:\FEM Builder 1.2\Source\FemLib\Include

Name	Size	Type	Modified
GEElementNCVI.h	2KB	H File	9/17/01 11:38 AM
GEElementOrient.h	1KB	H File	9/17/01 11:38 AM
GEElementSF.h	2KB	H File	9/17/01 11:38 AM
GEElementSFD.h	3KB	H File	9/17/01 11:38 AM
GEElementSFDD.h	4KB	H File	9/17/01 11:38 AM
GMeshFun.h	1KB	H File	9/17/01 11:38 AM
GPointFun.h	1KB	H File	9/17/01 11:38 AM
GRdAnsysRes.h	3KB	H File	9/17/01 11:38 AM
GSindaFun.h	1KB	H File	9/17/01 11:38 AM
RdAbaqus.h	6KB	H File	9/17/01 11:38 AM
RdAbaqusFIF.h	1KB	H File	9/17/01 11:38 AM
RdAbaqusFDF.h	2KB	H File	9/17/01 11:38 AM
RdAbaqusInput.h	3KB	H File	9/17/01 11:38 AM
RdAnsysCDB.h	6KB	H File	9/17/01 11:38 AM
RdAnsysRes.h	4KB	H File	9/17/01 11:38 AM
RdAschar.h	5KB	H File	9/17/01 11:38 AM
RdCCM.h	2KB	H File	9/17/01 11:38 AM
RdCDCA.h	2KB	H File	9/17/01 11:38 AM
RdFemDB.h	2KB	H File	9/17/01 11:38 AM
RdFluent.h	5KB	H File	9/17/01 11:38 AM
RdFluentIO.h	3KB	H File	9/17/01 11:38 AM
RdGridGen.h	2KB	H File	9/17/01 11:38 AM

Start | Exploring - D:\FEM B... | untitled - Paint | 5:03 PM

FIG. 56

20250925 10:05:25

Exploring - D:\FEM Builder 1.2\Source\FemLib\Include

Name	Size	Type	Modified
RdIdeasMS.h	4KB	H File	9/17/01 11:38 AM
RdPatran.h	3KB	H File	9/17/01 11:38 AM
RdRecess.h	3KB	H File	9/17/01 11:38 AM
RdSharp.h	3KB	H File	9/17/01 11:38 AM
RdSinda.h	1KB	H File	9/17/01 11:38 AM
RdSinGen.h	1KB	H File	9/17/01 11:38 AM
RdTexChem.h	2KB	H File	9/17/01 11:38 AM
RWAbaqus.h	1KB	H File	9/17/01 11:38 AM
RWAnsys.h	2KB	H File	9/17/01 11:38 AM
RWIdeasMS.h	2KB	H File	9/17/01 11:38 AM
WtAbaqus.h	6KB	H File	9/17/01 11:38 AM
WtAnsysCDB.h	3KB	H File	9/17/01 11:38 AM
WtCCM.h	2KB	H File	9/17/01 11:38 AM
WtCDCA.h	3KB	H File	9/17/01 11:38 AM
WtFemDB.h	2KB	H File	9/17/01 11:38 AM
WtFluent.h	6KB	H File	9/17/01 11:38 AM
WtIdeasMS.h	4KB	H File	9/17/01 11:38 AM
WtPatran.h	3KB	H File	9/17/01 11:38 AM
WtPatranRes.h	2KB	H File	9/17/01 11:38 AM
WtRecess.h	5KB	H File	9/17/01 11:38 AM
WtSinda.h	2KB	H File	9/17/01 11:38 AM
WtTexChem.h	3KB	H File	9/17/01 11:38 AM

113 object(s) 351KB (Disk free space: 0 bytes) My Computer

FIG. 57

Exploring - D:\FEM Builder 1.2\Source\FemLib\Interfaces

Name	Size	Type	Modified
CRdCrackCombustionData.cpp	4KB	CPP File	9/17/01 11:38 AM
CWtCrackCombustionData.cpp	2KB	CPP File	9/17/01 11:38 AM
RdAbaqus.cpp	38KB	CPP File	9/17/01 11:38 AM
RdAbaqusFIF.cpp	2KB	CPP File	9/17/01 11:38 AM
RdAbaqusFOF.cpp	6KB	CPP File	9/17/01 11:38 AM
RdAbaqusInput.cpp	45KB	CPP File	9/17/01 11:38 AM
RdAnsysCDB.cpp	64KB	CPP File	9/17/01 11:38 AM
RdAnsysRes.cpp	35KB	CPP File	9/17/01 11:38 AM
RdAschar.cpp	21KB	CPP File	9/17/01 11:38 AM
RdCCM.cpp	4KB	CPP File	9/17/01 11:38 AM
RdCDCA.cpp	4KB	CPP File	9/17/01 11:38 AM
RdFemDB.cpp	43KB	CPP File	9/17/01 11:38 AM
RdFluent.cpp	46KB	CPP File	9/17/01 11:38 AM
RdFluentIIO.cpp	23KB	CPP File	9/17/01 11:38 AM
RdGridGen.cpp	6KB	CPP File	9/17/01 11:38 AM
RdIdeasMS.cpp	45KB	CPP File	9/17/01 11:38 AM
RdIdeasMSMaterial.cpp	27KB	CPP File	9/17/01 11:38 AM
RdPatran.cpp	29KB	CPP File	9/17/01 11:38 AM
RdRecess.cpp	37KB	CPP File	9/17/01 11:38 AM
RdSharp.cpp	27KB	CPP File	9/17/01 11:38 AM
RdSinda.cpp	5KB	CPP File	9/17/01 11:38 AM
RdSinGen.cpp	4KB	CPP File	9/17/01 11:38 AM
RdTexChem.cpp	15KB	CPP File	9/17/01 11:38 AM

38 object(s) 936KB (Disk free space: 0 bytes) My Computer

FIG. 58

Exploring - D:\FEM Builder 1.2\Source\FemLib\Interfaces

Name	Size	Type	Modified
RdIdeasMSMaterial.cpp	27KB	CPP File	9/17/01 11:38 AM
RdPatran.cpp	29KB	CPP File	9/17/01 11:38 AM
RdRecess.cpp	37KB	CPP File	9/17/01 11:38 AM
RdSharp.cpp	27KB	CPP File	9/17/01 11:38 AM
RdSinda.cpp	5KB	CPP File	9/17/01 11:38 AM
RdSinGen.cpp	4KB	CPP File	9/17/01 11:38 AM
RdTexChem.cpp	15KB	CPP File	9/17/01 11:38 AM
RwAbaqus.cpp	10KB	CPP File	9/17/01 11:38 AM
RwAnsys.cpp	20KB	CPP File	9/17/01 11:38 AM
RwIdeasMS.cpp	19KB	CPP File	9/17/01 11:38 AM
WtAbaqus.cpp	36KB	CPP File	9/17/01 11:38 AM
WtAnsysCDB.cpp	34KB	CPP File	9/17/01 11:38 AM
WtCCM.cpp	6KB	CPP File	9/17/01 11:38 AM
WtCOCA.cpp	12KB	CPP File	9/17/01 11:38 AM
WtFemDB.cpp	37KB	CPP File	9/17/01 11:38 AM
WtFluent.cpp	66KB	CPP File	9/17/01 11:38 AM
WtIdeasMS.cpp	44KB	CPP File	9/17/01 11:38 AM
WtIdeasMSMaterial.cpp	27KB	CPP File	9/17/01 11:38 AM
WtPatran.cpp	33KB	CPP File	9/17/01 11:38 AM
WtRecess.cpp	35KB	CPP File	9/17/01 11:38 AM
WtSinda.cpp	19KB	CPP File	9/17/01 11:38 AM
WtTexChem.cpp	22KB	CPP File	9/17/01 11:38 AM

38 object(s) 936KB (Disk free space: 0 bytes) My Computer

FIG. 59

Exploring - D:\FEM Builder 1.2\Source\FemPython

Name	Size	Type	Modified
FEDoc.cpp	1KB	CPP File	9/17/01 11:38 AM
FEDoc.h	1KB	H File	9/17/01 11:38 AM
FEM.cpp	6KB	CPP File	9/19/01 10:44 AM
FEM_ExtractFileNames.hpp	4KB	HPP File	9/17/01 11:38 AM
FEM_FEDoc.hpp	6KB	HPP File	9/17/01 11:38 AM
FEM_FEModel.hpp	31KB	HPP File	9/17/01 11:38 AM
FEM_FEModelBC.hpp	32KB	HPP File	9/17/01 11:38 AM
FEM_FEModelColor.hpp	2KB	HPP File	9/17/01 11:38 AM
FEM_FEModelCurve.hpp	17KB	HPP File	9/17/01 11:38 AM
FEM_FEModelDelete.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEModelElement.hpp	13KB	HPP File	9/17/01 11:38 AM
FEM_FEModelEquation.hpp	6KB	HPP File	9/17/01 11:38 AM
FEM_FEModelGroup.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEModelInterface.hpp	32KB	HPP File	9/17/01 11:38 AM
FEM_FEModelList.hpp	5KB	HPP File	9/17/01 11:38 AM
FEM_FEModelMaterial.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEModelMesh.hpp	15KB	HPP File	9/17/01 11:38 AM
FEM_FEModelMoveCopy.hpp	11KB	HPP File	9/17/01 11:38 AM
FEM_FEModelNode.hpp	7KB	HPP File	9/17/01 11:38 AM
FEM_FEModelPoint.hpp	5KB	HPP File	9/17/01 11:38 AM
FEM_FEModelPostprocessing.hpp	15KB	HPP File	9/17/01 11:38 AM
FEM_FEModelRegion.hpp	2KB	HPP File	9/17/01 11:38 AM
FEM_FEModelResult.hpp	11KB	HPP File	9/17/01 11:38 AM

65 object(s) 556KB (Disk free space: 0 bytes) My Computer

FIG. 60

Exploring - D:\FEM Builder 1.2\Source\FemPython

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEM_FEMModelSubModel.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEMModelSurface.hpp	11KB	HPP File	9/17/01 11:38 AM
FEM_FEMModelSweep.hpp	2KB	HPP File	9/17/01 11:38 AM
FEM_FEMModelSystem.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEMModelTools.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEMModelVolume.hpp	9KB	HPP File	9/17/01 11:38 AM
FEM_FEProperty.hpp	9KB	HPP File	9/17/01 11:38 AM
FEM_FEPropertyGroup.hpp	7KB	HPP File	9/17/01 11:38 AM
FEM_FEResult.hpp	15KB	HPP File	9/17/01 11:38 AM
FEMModel.cpp	5KB	CPP File	9/17/01 11:38 AM
FEMModel.h	19KB	H File	9/17/01 11:38 AM
FEMModelBC.cpp	33KB	CPP File	9/17/01 11:38 AM
FEMModelColor.cpp	2KB	CPP File	9/17/01 11:38 AM
FEMModelCurve.cpp	14KB	CPP File	9/17/01 11:38 AM
FEMModelDelete.cpp	3KB	CPP File	9/17/01 11:38 AM
FEMModelElement.cpp	14KB	CPP File	9/17/01 11:38 AM
FEMModelEquation.cpp	3KB	CPP File	9/17/01 11:38 AM
FEMModelGroup.cpp	5KB	CPP File	9/17/01 11:38 AM
FEMModelInterface.cpp	45KB	CPP File	9/17/01 11:38 AM
FEMModelList.cpp	5KB	CPP File	9/17/01 11:38 AM
FEMModelMaterial.cpp	1KB	CPP File	9/17/01 11:38 AM
FEMModelMesh.cpp	22KB	CPP File	9/17/01 11:38 AM
FEMModelMoveCopy.cpp	13KB	CPP File	9/17/01 11:38 AM

65 object(s) 556KB (Disk free space: 0 bytes) My Computer

FIG. 61

Exploring - D:\FEM Builder 1.2\Source\FemPython

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMModelMaterial.cpp	1KB	CPP File	9/17/01 11:38 AM
FEMModelMesh.cpp	22KB	CPP File	9/17/01 11:38 AM
FEMModelMoveCopy.cpp	13KB	CPP File	9/17/01 11:38 AM
FEMModelNode.cpp	7KB	CPP File	9/17/01 11:38 AM
FEMModelPoint.cpp	5KB	CPP File	9/17/01 11:38 AM
FEMModelPostprocessing.cpp	14KB	CPP File	9/17/01 11:38 AM
FEMModelRegion.cpp	2KB	CPP File	9/17/01 11:38 AM
FEMModelResult.cpp	5KB	CPP File	9/17/01 11:38 AM
FEMModelSubModel.cpp	3KB	CPP File	9/17/01 11:38 AM
FEMModelSurface.cpp	11KB	CPP File	9/17/01 11:38 AM
FEMModelSweep.cpp	2KB	CPP File	9/17/01 11:38 AM
FEMModelSystem.cpp	4KB	CPP File	9/17/01 11:38 AM
FEMModelVolume.cpp	8KB	CPP File	9/17/01 11:38 AM
FemPython.dsp	10KB	DSP File	9/17/01 11:38 AM
FemPython.dsw	3KB	DSV File	9/17/01 11:38 AM
FEProperty.cpp	4KB	CPP File	9/17/01 11:38 AM
FEProperty.h	2KB	H File	9/17/01 11:38 AM
FEPropertyGroup.cpp	3KB	CPP File	9/17/01 11:38 AM
FEPropertyGroup.h	1KB	H File	9/17/01 11:38 AM
FEResult.cpp	10KB	CPP File	9/17/01 11:38 AM
FEResult.h	2KB	H File	9/17/01 11:38 AM
FEStdIn.h	1KB	H File	9/17/01 11:38 AM

65 object(s) 556KB (Disk free space: 0 bytes) My Computer

FIG. 62

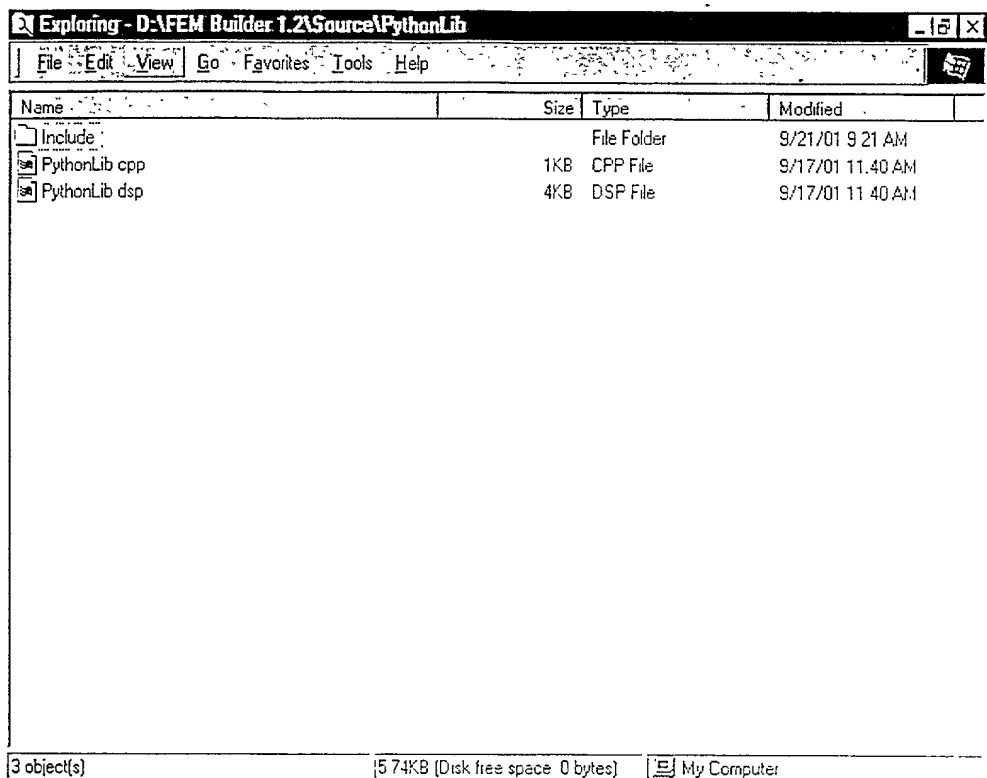


FIG. 63

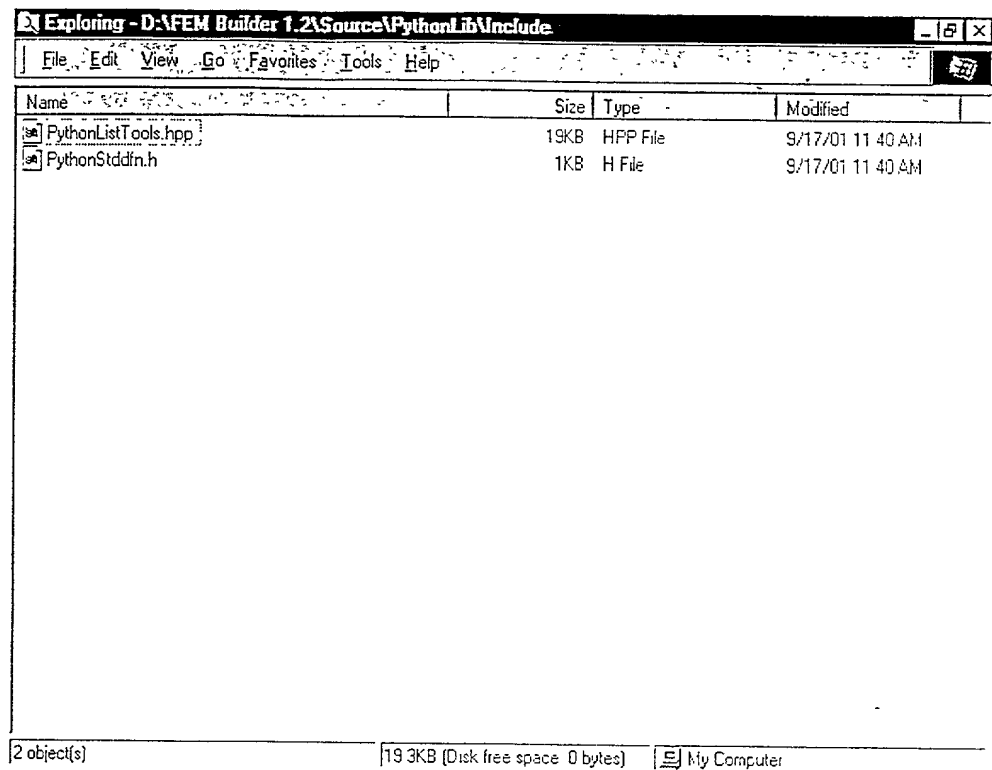


FIG. 64

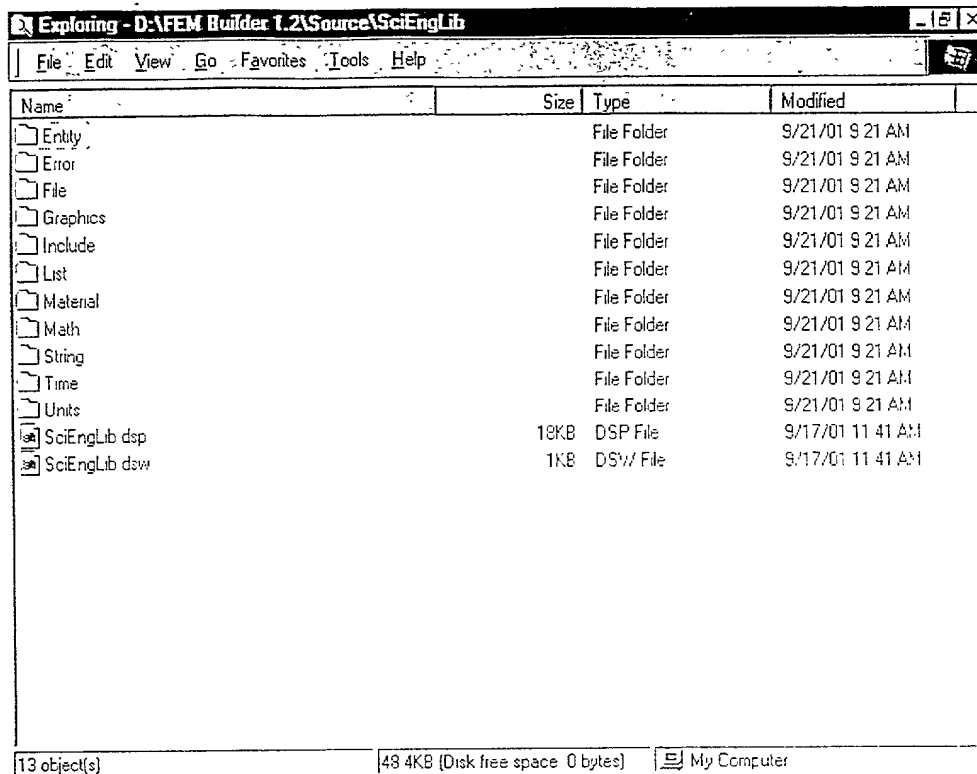


FIG. 65

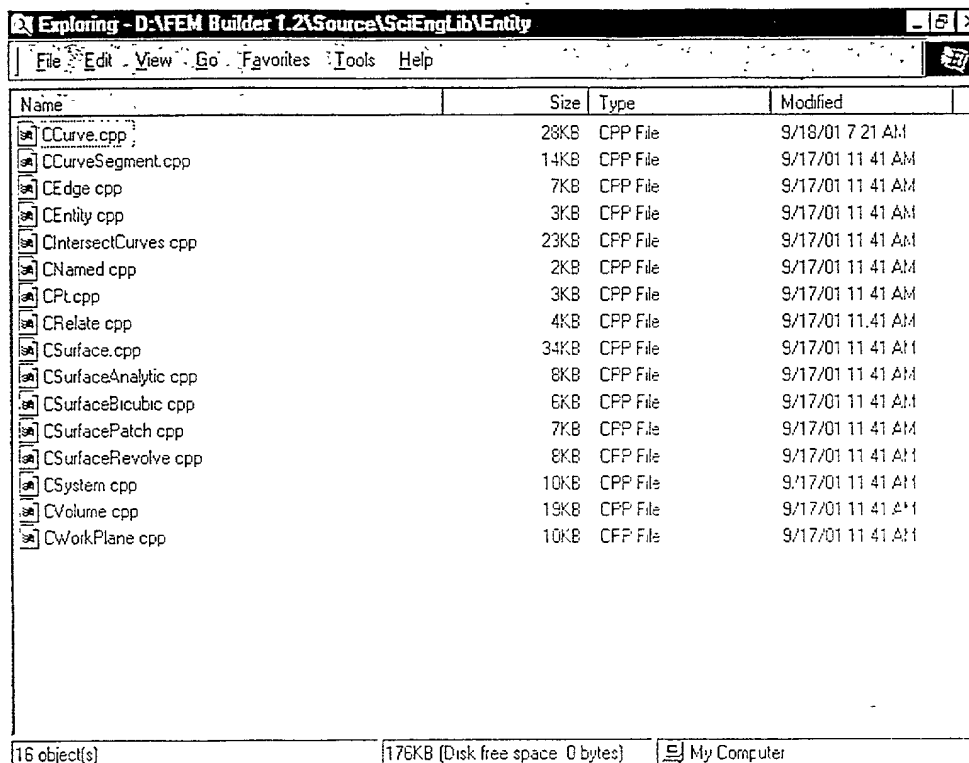


FIG. 66

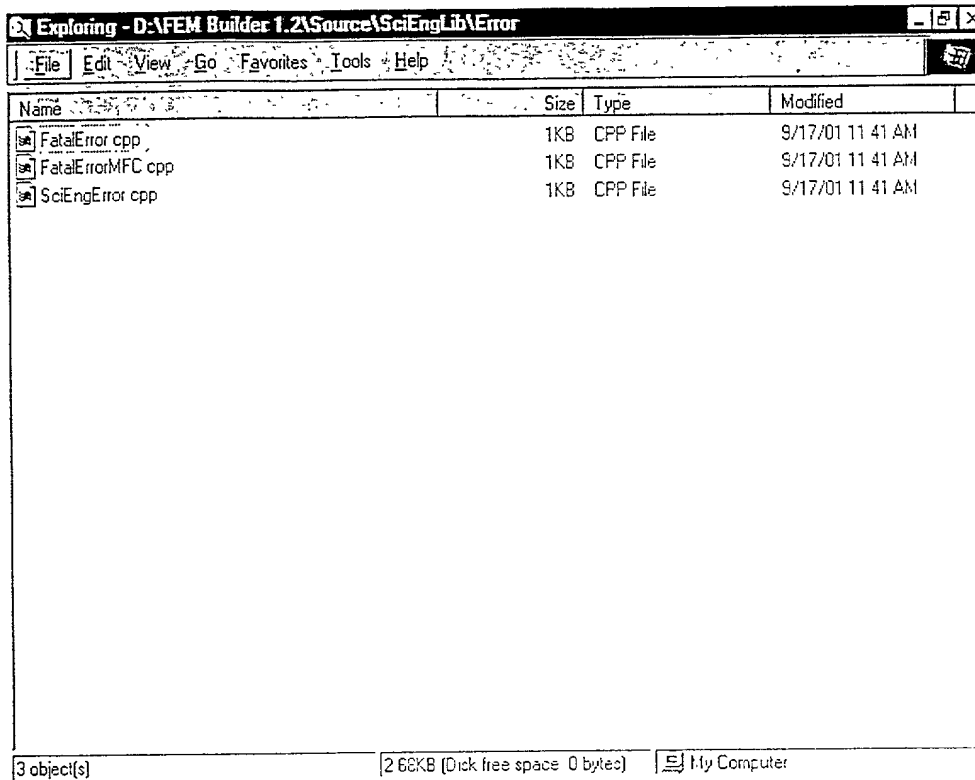


FIG. 67

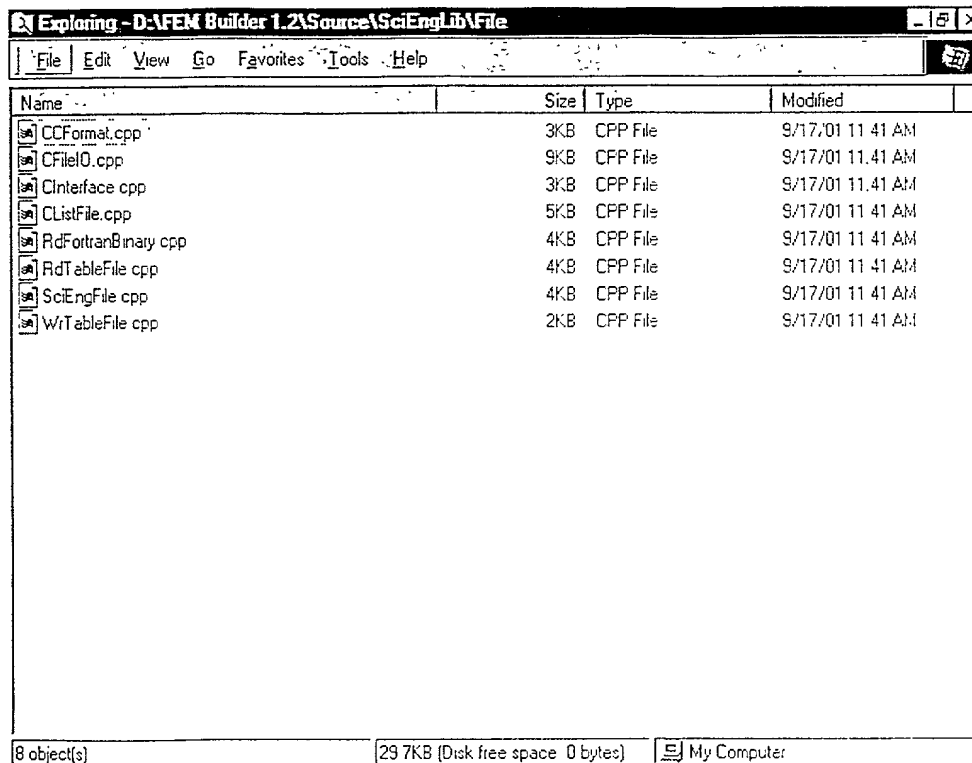


FIG. 68

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\Graphics

Name	Size	Type	Modified
CCColorButton.cpp	6KB	CPP File	9/17/01 11:41 AM
CDeviceDC.cpp	9KB	CPP File	9/17/01 11:41 AM
CDisplayList.cpp	20KB	CPP File	9/17/01 11:41 AM
CDisplayListHL.cpp	12KB	CPP File	9/17/01 11:41 AM
CMSWinDC.cpp	9KB	CPP File	9/17/01 11:41 AM
COpenGLDC.cpp	24KB	CPP File	9/21/01 7:04 AM
CRubberBand.cpp	6KB	CPP File	9/17/01 11:41 AM
CViewDC.cpp	45KB	CPP File	9/21/01 7:04 AM
CXYPlotAxis.cpp	8KB	CPP File	9/17/01 11:41 AM
CXYPlotCurve.cpp	19KB	CPP File	9/17/01 11:41 AM
CXYPlotData.cpp	10KB	CPP File	9/17/01 11:41 AM
DrawSymbol.cpp	12KB	CPP File	9/17/01 11:41 AM
SciEngColor.cpp	7KB	CPP File	9/17/01 11:41 AM
SciEngDraw.cpp	2KB	CPP File	9/17/01 11:41 AM

14 object(s) 181KB (Disk free space: 0 bytes) My Computer

FIG. 69

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\Include

Name	Size	Type	Modified
CArray.h	3KB	H File	9/17/01 11:41 AM
CArray.hpp	4KB	HPP File	9/17/01 11:41 AM
CList.h	2KB	H File	9/17/01 11:41 AM
CList.hpp	4KB	HPP File	9/17/01 11:41 AM
CFormat.h	2KB	H File	9/17/01 11:41 AM
CChemicalReaction.h	3KB	H File	9/17/01 11:41 AM
CChemicalSpecies.h	2KB	H File	9/17/01 11:41 AM
CColorButton.h	3KB	H File	9/17/01 11:41 AM
CCompositeProperty.h	3KB	H File	9/17/01 11:41 AM
CCurve.h	4KB	H File	9/17/01 11:41 AM
CCurveFit.h	2KB	H File	9/17/01 11:41 AM
CCurveSegment.h	3KB	H File	9/17/01 11:41 AM
CDateD.h	2KB	H File	9/17/01 11:41 AM
CDeviceDC.h	5KB	H File	9/17/01 11:41 AM
CDisplayList.h	14KB	H File	9/17/01 11:41 AM
CDisplayListHL.h	3KB	H File	9/17/01 11:41 AM
CDoubleList.h	2KB	H File	9/17/01 11:41 AM
CEdge.h	2KB	H File	9/17/01 11:41 AM
CList.h	3KB	H File	9/17/01 11:41 AM
CList.hpp	6KB	HPP File	9/17/01 11:41 AM
CEllipticIntegral.h	2KB	H File	9/17/01 11:41 AM
CEntity.h	4KB	H File	9/17/01 11:41 AM
CFileIO.h	4KB	H File	9/17/01 11:41 AM

117 object(s) 288KB (Disk free space: 0 bytes) My Computer

FIG. 70

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Name	Size	Type	Modified
CFindRoot.h	2KB	H File	9/17/01 11:41 AM
CHash.h	3KB	H File	9/17/01 11:41 AM
CIntegrate.h	3KB	H File	9/17/01 11:41 AM
CIntegrateODE.h	5KB	H File	9/17/01 11:41 AM
CInterface.h	2KB	H File	9/17/01 11:41 AM
CIntersectCurves.h	2KB	H File	9/17/01 11:41 AM
CIntList.h	2KB	H File	9/17/01 11:41 AM
CLeastSquareFit.h	1KB	H File	9/17/01 11:41 AM
CLEList.h	2KB	H File	9/17/01 11:41 AM
CLEList.hpp	6KB	HFP File	9/17/01 11:41 AM
CLinkedList.h	2KB	H File	9/17/01 11:41 AM
CLinkedList.hpp	6KB	HFP File	9/17/01 11:41 AM
CListFile.h	2KB	H File	9/17/01 11:41 AM
CMaterialDB.h	2KB	H File	9/17/01 11:41 AM
CMatID.h	3KB	H File	9/17/01 11:41 AM
CMSWinDC.h	3KB	H File	9/17/01 11:41 AM
CNamed.h	2KB	H File	9/17/01 11:41 AM
CNEList.h	2KB	H File	9/17/01 11:41 AM
CNEList.hpp	4KB	HFP File	9/17/01 11:41 AM
CNewtonRaphson.h	2KB	H File	9/17/01 11:41 AM
CNTTable.h	3KB	H File	9/17/01 11:41 AM
COpenGLDC.h	5KB	H File	9/21/01 7:04 AM
COptimize1D.h	3KB	H File	9/17/01 11:41 AM

117 object(s) 268KB (Disk free space: 0 bytes) My Computer

FIG. 71

Name	Size	Type	Modified
COptimizeND.h	3KB	H File	9/17/01 11:41 AM
CPipAnnotation.h	2KB	H File	9/17/01 11:41 AM
CPipAttr.h	2KB	H File	9/17/01 11:41 AM
CPipDB.h	3KB	H File	9/17/01 11:41 AM
CPipGroup.h	2KB	H File	9/17/01 11:41 AM
CPipNote.h	1KB	H File	9/17/01 11:41 AM
CPipTable.h	2KB	H File	9/17/01 11:41 AM
CPL.h	2KB	H File	9/17/01 11:41 AM
CRelate.h	2KB	H File	9/17/01 11:41 AM
CRelate.hpp	1KB	HFP File	9/17/01 11:41 AM
CRubberBand.h	2KB	H File	9/17/01 11:41 AM
CSet.h	2KB	H File	9/17/01 11:41 AM
CSet.hpp	6KB	HFP File	9/17/01 11:41 AM
CSetArray.h	6KB	H File	9/17/01 11:41 AM
CSpline.h	2KB	H File	9/17/01 11:41 AM
CSurface.h	11KB	H File	9/17/01 11:41 AM
CSurfaceEdge.h	2KB	H File	9/17/01 11:41 AM
CSurfaceFit.h	3KB	H File	9/17/01 11:41 AM
CSurfacePatch.h	3KB	H File	9/17/01 11:41 AM
CSystem.h	3KB	H File	9/17/01 11:41 AM
CTable.h	4KB	H File	9/17/01 11:41 AM
CTableCell.h	3KB	H File	9/17/01 11:41 AM
CText.h	3KB	H File	9/17/01 11:41 AM

117 object(s) 268KB (Disk free space: 0 bytes) My Computer

FIG. 72

2005757-06001

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CTextFont.h	2KB	H File	9/17/01 11:41 AM
CTextFontDialog.h	1KB	H File	9/17/01 11:41 AM
CTimeDate.h	2KB	H File	9/17/01 11:41 AM
CTimeMS.h	2KB	H File	9/17/01 11:41 AM
CUnitSystem.h	4KB	H File	9/17/01 11:41 AM
CViewDC.h	10KB	H File	9/21/01 7:04 AM
CViewDCDef.h	2KB	H File	9/17/01 11:41 AM
CVolume.h	4KB	H File	9/17/01 11:41 AM
CWorkPlane.h	4KB	H File	9/17/01 11:41 AM
CXYPlotAxis.h	3KB	H File	9/17/01 11:41 AM
CXYPlotCurve.h	5KB	H File	9/17/01 11:41 AM
CXYPlotData.h	3KB	H File	9/21/01 7:04 AM
DrawSymbol.h	2KB	H File	9/17/01 11:41 AM
MatProperty.h	2KB	H File	9/17/01 11:41 AM
MatPropertyInfo.h	2KB	H File	9/17/01 11:41 AM
RdFortranBinary.h	3KB	H File	9/17/01 11:41 AM
RdMaterialDB.h	2KB	H File	9/17/01 11:41 AM
RdPipDB.h	2KB	H File	9/17/01 11:41 AM
RdTableFile.h	2KB	H File	9/17/01 11:41 AM
SciEngBit.h	1KB	H File	9/17/01 11:41 AM
SciEngBit.hpp	1KB	HPP File	9/17/01 11:41 AM
SciEngColor.h	3KB	H File	9/17/01 11:41 AM
SciEngCSystem.h	2KB	H File	9/17/01 11:41 AM

117 object(s) 288KB (Disk free space: 0 bytes) My Computer

FIG. 73

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
SciEngCurve.h	3KB	H File	9/17/01 11:41 AM
SciEngCurveFit.h	7KB	H File	9/17/01 11:41 AM
SciEngDraw.h	1KB	H File	9/17/01 11:41 AM
SciEngError.h	1KB	H File	9/17/01 11:41 AM
SciEngFile.h	2KB	H File	9/17/01 11:41 AM
SciEngLib.h	3KB	H File	9/17/01 11:41 AM
SciEngMath.h	4KB	H File	9/17/01 11:41 AM
SciEngMath.hpp	4KB	HPP File	9/17/01 11:41 AM
SciEngMatrix.h	3KB	H File	9/17/01 11:41 AM
SciEngMove.h	1KB	H File	9/17/01 11:41 AM
SciEngMove.hpp	1KB	HPP File	9/17/01 11:41 AM
SciEngPoint.h	4KB	H File	9/17/01 11:41 AM
SciEngPolygon.h	1KB	H File	9/17/01 11:41 AM
SciEngResult.h	2KB	H File	9/17/01 11:41 AM
SciEngSort.h	1KB	H File	9/17/01 11:41 AM
SciEngSort.hpp	5KB	HPP File	9/17/01 11:41 AM
SciEngStdIn.h	3KB	H File	9/17/01 11:41 AM
SciEngStr.h	3KB	H File	9/17/01 11:41 AM
SciEngSurface.h	1KB	H File	9/17/01 11:41 AM
SciEngVector.h	2KB	H File	9/17/01 11:41 AM
SciEngVector.hpp	1KB	HPP File	9/17/01 11:41 AM
Stdafx.h	1KB	H File	9/17/01 11:41 AM
WitMaterialDB.h	1KB	H File	9/17/01 11:41 AM

117 object(s) 288KB (Disk free space: 0 bytes) My Computer

FIG. 74

2005-06-03 10:05:53

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\Include

Name	Size	Type	Modified
SciEngError.h	1KB	H File	9/17/01 11:41 AM
SciEngFile.h	2KB	H File	9/17/01 11:41 AM
SciEngLib.h	3KB	H File	9/17/01 11:41 AM
SciEngMath.h	4KB	H File	9/17/01 11:41 AM
SciEngMath.hpp	4KB	HPP File	9/17/01 11:41 AM
SciEngMatrix.h	3KB	H File	9/17/01 11:41 AM
SciEngMove.h	1KB	H File	9/17/01 11:41 AM
SciEngMove.hpp	1KB	HPP File	9/17/01 11:41 AM
SciEngPoint.h	4KB	H File	9/17/01 11:41 AM
SciEngPolygon.h	1KB	H File	9/17/01 11:41 AM
SciEngResult.h	2KB	H File	9/17/01 11:41 AM
SciEngSort.h	1KB	H File	9/17/01 11:41 AM
SciEngSort.hpp	5KB	HPP File	9/17/01 11:41 AM
SciEngStdIn.h	3KB	H File	9/17/01 11:41 AM
SciEngStr.h	3KB	H File	9/17/01 11:41 AM
SciEngSurface.h	1KB	H File	9/17/01 11:41 AM
SciEngVector.h	2KB	H File	9/17/01 11:41 AM
SciEngVector.hpp	1KB	HPP File	9/17/01 11:41 AM
StdAfx.h	1KB	H File	9/17/01 11:41 AM
WtMaterialDB.h	1KB	H File	9/17/01 11:41 AM
WtPipDB.h	2KB	H File	9/17/01 11:41 AM
WtTableFile.h	1KB	H File	9/17/01 11:41 AM

117 object(s) 286KB (Disk free space: 0 bytes) My Computer

FIG. 75

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\List

Name	Size	Type	Modified
CDDoubleList.cpp	3KB	CPP File	9/17/01 11:41 AM
CHash.cpp	17KB	CPP File	9/17/01 11:41 AM
ClntList.cpp	4KB	CPP File	9/17/01 11:41 AM

3 object(s) 21 KB (Disk free space: 0 bytes) My Computer

FIG. 76

20250906 09:00:00

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\Material				
File Edit View Go Favorites Tools Help				
Name	Size	Type	Modified	
CChemicalReaction.cpp	5KB	CPP File	9/17/01 11:41 AM	
CCompositeProperty.cpp	8KB	CPP File	9/17/01 11:41 AM	
CMaterialDB.cpp	6KB	CPP File	9/17/01 11:41 AM	
CMatID.cpp	5KB	CPP File	9/17/01 11:41 AM	
CNTTable.cpp	7KB	CPP File	9/17/01 11:41 AM	
CPipAnnotation.cpp	3KB	CPP File	9/17/01 11:41 AM	
CPipAttr.cpp	4KB	CPP File	9/17/01 11:41 AM	
CPipDB.cpp	4KB	CPP File	9/17/01 11:41 AM	
CPipGroup.cpp	5KB	CPP File	9/17/01 11:41 AM	
CPipTable.cpp	2KB	CPP File	9/17/01 11:41 AM	
CTable.cpp	12KB	CPP File	9/17/01 11:41 AM	
CTableCell.cpp	4KB	CPP File	9/17/01 11:41 AM	
MatPropertyInfo.cpp	23KB	CPP File	9/17/01 11:41 AM	
RdMaterialDB.cpp	7KB	CPP File	9/17/01 11:41 AM	
RdPipDB.cpp	7KB	CPP File	9/17/01 11:41 AM	
WtMaterialDB.cpp	3KB	CPP File	9/17/01 11:41 AM	
WtPipDB.cpp	6KB	CPP File	9/17/01 11:41 AM	
17 object(s) 103KB (Disk free space: 0 bytes) My Computer				

FIG. 77

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\Math				
File Edit View Go Favorites Tools Help				
Name	Size	Type	Modified	
CCurveFit.cpp	3KB	CPP File	9/17/01 11:41 AM	
CEllipticIntegral.cpp	6KB	CPP File	9/17/01 11:41 AM	
CFindRoot.cpp	6KB	CPP File	9/17/01 11:41 AM	
CIntegrate.cpp	20KB	CPP File	9/17/01 11:41 AM	
CIntegrateODE.cpp	11KB	CPP File	9/17/01 11:41 AM	
CLeastSquareFit.cpp	3KB	CPP File	9/17/01 11:41 AM	
CNewtonRaphson.cpp	7KB	CPP File	9/17/01 11:41 AM	
COptimize1D.cpp	9KB	CPP File	9/17/01 11:41 AM	
COptimizeND.cpp	8KB	CPP File	9/17/01 11:41 AM	
CSpline.cpp	6KB	CPP File	9/17/01 11:41 AM	
CSurfaceFit.cpp	10KB	CPP File	9/17/01 11:41 AM	
SciEngCSystem.cpp	4KB	CPP File	9/17/01 11:41 AM	
SciEngCurve.cpp	15KB	CPP File	9/17/01 11:41 AM	
SciEngCurveFit.cpp	34KB	CPP File	9/17/01 11:41 AM	
SciEngMath.cpp	15KB	CPP File	9/17/01 11:41 AM	
SciEngMatrx.cpp	33KB	CPP File	9/17/01 11:41 AM	
SciEngMove.cpp	1KB	CPP File	9/17/01 11:41 AM	
SciEngPoint.cpp	30KB	CPP File	9/17/01 11:41 AM	
SciEngPolygon.cpp	5KB	CPP File	9/17/01 11:41 AM	
SciEngResult.cpp	18KB	CPP File	9/17/01 11:41 AM	
SciEngSort.cpp	1KB	CPP File	9/17/01 11:41 AM	
SciEngSurface.cpp	11KB	CPP File	9/17/01 11:41 AM	
SciEngVector.cpp	6KB	CPP File	9/17/01 11:41 AM	
23 object(s) 256KB (Disk free space: 0 bytes) My Computer				

FIG. 78

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\Math

Name	Size	Type	Modified
CEllipticIntegral.cpp	6KB	CPP File	9/17/01 11:41 AM
CFindRoot.cpp	8KB	CPP File	9/17/01 11:41 AM
CIntegrate.cpp	20KB	CPP File	9/17/01 11:41 AM
CIntegrateODE.cpp	11KB	CPP File	9/17/01 11:41 AM
CLeastSquareFit.cpp	3KB	CPP File	9/17/01 11:41 AM
CNewtonRaphson.cpp	7KB	CPP File	9/17/01 11:41 AM
COptimize1D.cpp	9KB	CPP File	9/17/01 11:41 AM
COptimizeND.cpp	8KB	CPP File	9/17/01 11:41 AM
CSpline.cpp	6KB	CPP File	9/17/01 11:41 AM
CSurfaceFit.cpp	10KB	CPP File	9/17/01 11:41 AM
SciEngCSystem.cpp	4KB	CPP File	9/17/01 11:41 AM
SciEngCurve.cpp	19KB	CPP File	9/17/01 11:41 AM
SciEngCurveFit.cpp	34KB	CPP File	9/17/01 11:41 AM
SciEngMath.cpp	16KB	CPP File	9/17/01 11:41 AM
SciEngMatrix.cpp	33KB	CPP File	9/17/01 11:41 AM
SciEngMove.cpp	1KB	CPP File	9/17/01 11:41 AM
SciEngPoint.cpp	30KB	CPP File	9/17/01 11:41 AM
SciEngPolygon.cpp	5KB	CPP File	9/17/01 11:41 AM
SciEngResult.cpp	18KB	CPP File	9/17/01 11:41 AM
SciEngSort.cpp	1KB	CPP File	9/17/01 11:41 AM
SciEngSurface.cpp	11KB	CPP File	9/17/01 11:41 AM
SciEngVector.cpp	8KB	CPP File	9/17/01 11:41 AM

23 object(s) 258KB (Disk free space: 0 bytes) My Computer

FIG. 79

Exploring - D:\FEM Builder 1.2\Source\SciEngLib\String

Name	Size	Type	Modified
CText.cpp	5KB	CPP File	9/17/01 11:41 AM
CTextFont.cpp	2KB	CPP File	9/17/01 11:41 AM
CTextFontDialog.cpp	2KB	CPP File	9/17/01 11:41 AM
SciEngStr.cpp	16KB	CPP File	9/17/01 11:41 AM

4 object(s) 23 KB (Disk free space: 0 bytes) My Computer

FIG. 80

20050925 100532.060001

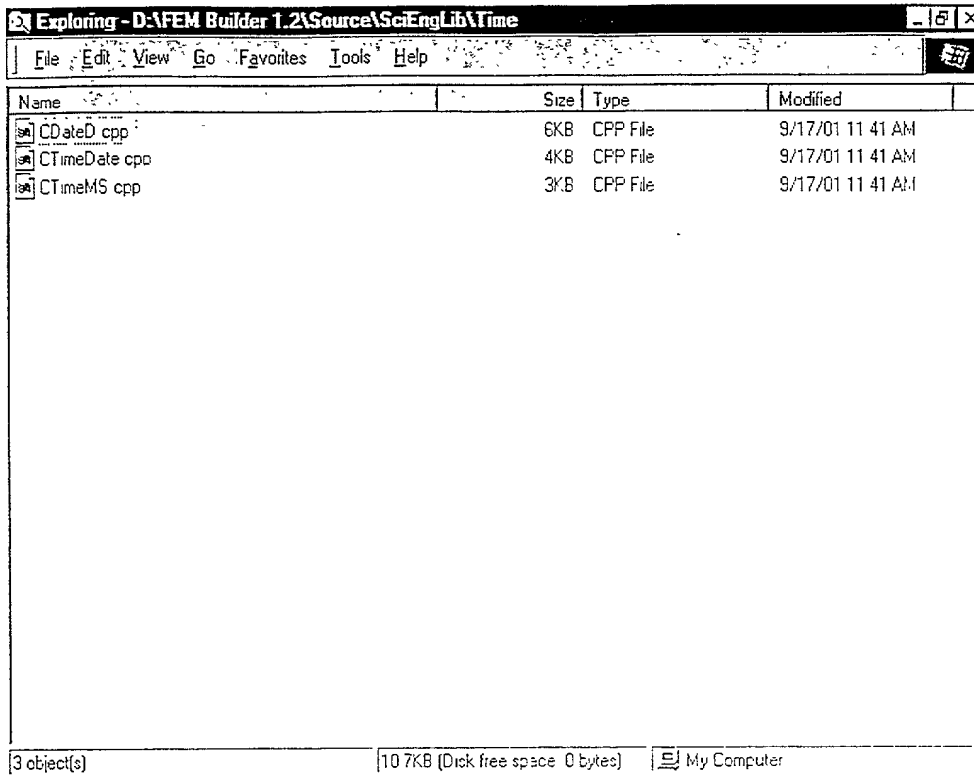


FIG. 81

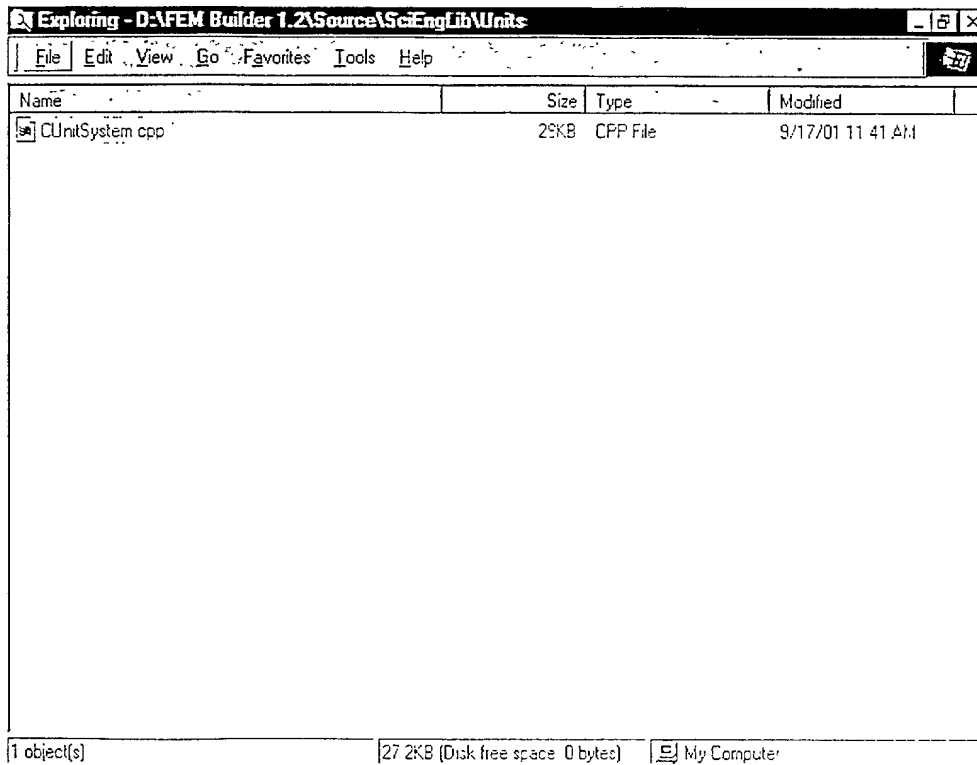


FIG. 82

20030901 09:25:00

Name	Size	Type	Modified
Python		File Folder	9/21/01 9:21 AM
Results		File Folder	9/21/01 9:21 AM
Ablation-Structure.unv	1,858KB	UNV File	9/17/01 11:34 AM
Ablation-Thermal-Aft.plt	415KB	PLT File	9/17/01 11:34 AM
Ablation-Thermal-Fwd.plt	1,640KB	PLT File	9/17/01 11:34 AM
Axisym1.fdb	8KB	FDB File	9/17/01 11:34 AM
Axisym1.fil	40KB	FIL File	9/17/01 11:34 AM
Axisym1.resinp	4KB	RESINP File	9/17/01 11:34 AM
Axisym1.unv	11KB	UNV File	9/17/01 11:34 AM
Axisym1BC.fdb	7KB	FDB File	9/17/01 11:34 AM
Axisym1Caxa.fil	21KB	FIL File	9/17/01 11:34 AM
Axisym1Caxa.inp	4KB	INP File	9/17/01 11:34 AM
Axisym1CAXAResults.fdb	52KB	FDB File	9/17/01 11:34 AM
Axisym1CentResults.fdb	31KB	FDB File	9/17/01 11:34 AM
Axisym1Results.fdb	36KB	FDB File	9/17/01 11:34 AM
BoundaryListCheck1.fdb	4KB	FDB File	9/17/01 11:34 AM
CheckConnectivity.fdb	30KB	FDB File	9/17/01 11:34 AM
ChemicalReaction.fdb	1KB	FDB File	9/17/01 11:34 AM
ConcidentNodes.fdb	2KB	FDB File	9/17/01 11:34 AM
Constrain2d.fdb	13KB	FDB File	9/17/01 11:34 AM
Constrain3d.fdb	34KB	FDB File	9/17/01 11:34 AM
cp1d_bb.resinp	41KB	RESINP File	9/17/01 11:34 AM
cp1d_bb.resout	83KB	RESOUT File	9/17/01 11:34 AM

187 object(s) 49 2MB (Disk free space: 0 bytes) My Computer

FIG. 83

Name	Size	Type	Modified
cp1d_bls.resinp	7KB	RESINP File	9/17/01 11:34 AM
cp1d_bls.resout	245KB	RESOUT File	9/17/01 11:34 AM
cp1d_blt.resinp	8KB	RESINP File	9/17/01 11:34 AM
cp1d_blt.resout	246KB	RESOUT File	9/17/01 11:34 AM
cp1d_cbs.resinp	60KB	RESINP File	9/17/01 11:34 AM
cp1d_cbs.resout	98KB	RESOUT File	9/17/01 11:34 AM
cp1d_cbt.resinp	61KB	RESINP File	9/17/01 11:34 AM
cp1d_cbt.resout	96KB	RESOUT File	9/17/01 11:34 AM
Crack1FQ.fdb	39KB	FDB File	9/17/01 11:34 AM
Crack1FQ.fil	140KB	FIL File	9/17/01 11:34 AM
Crack1FQResults.fdb	175KB	FDB File	9/17/01 11:34 AM
Crack2DFFSL.fdb	16KB	FDB File	9/17/01 11:34 AM
Crack2DFFSL.fil	109KB	FIL File	9/17/01 11:34 AM
Crack2DFFSL.inp	6KB	INP File	9/17/01 11:34 AM
Crack2DFFSQ.fdb	32KB	FDB File	9/17/01 11:34 AM
Crack2DFFSQ.fil	199KB	FIL File	9/17/01 11:34 AM
Crack2DFFSQ.inp	13KB	INP File	9/17/01 11:34 AM
Crack2DFZL.fdb	113KB	FDB File	9/17/01 11:34 AM
Crack2DFZL.fil	1,707KB	FIL File	9/17/01 11:34 AM
Crack2DFZL.inp	44KB	INP File	9/17/01 11:34 AM
Crack2DFZQ.fdb	243KB	FDB File	9/17/01 11:34 AM
Crack2DFZQ.fil	3,497KB	FIL File	9/17/01 11:35 AM
Crack2DFZQ.inp	102KB	INP File	9/17/01 11:35 AM

187 object(s) 49 2MB (Disk free space: 0 bytes) My Computer

FIG. 84

Exploring - D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
Crack2DPS fdb	32KB	FDB File	9/17/01 11 35 AM
Crack2DSFML fdb	18KB	FDB File	9/17/01 11 35 AM
Crack2DSFML fil	104KB	FIL File	9/17/01 11 35 AM
Crack2DSFML inp	7KB	INP File	9/17/01 11 35 AM
Crack2DSFMQ fdb	37KB	FDB File	9/17/01 11 35 AM
Crack2DSFMQ fil	213KB	FIL File	9/17/01 11 35 AM
Crack2DSFMQ inp	15KB	INP File	9/17/01 11 35 AM
Crack2DSZL fdb	75KB	FDB File	9/17/01 11 35 AM
Crack2DSZL fil	1,065KB	FIL File	9/17/01 11 35 AM
Crack2DSZL inp	29KB	INP File	9/17/01 11 35 AM
Crack2DSZQ fdb	153KB	FDB File	9/17/01 11 35 AM
Crack2DSZQ fil	2,175KB	FIL File	9/17/01 11 35 AM
Crack2DSZQ inp	63KB	INP File	9/17/01 11 35 AM
Crack3DFFSL fdb	47KB	FDB File	9/17/01 11 35 AM
Crack3DFFSL fil	445KB	FIL File	9/17/01 11 35 AM
Crack3DFFSL inp	26KB	INP File	9/17/01 11 35 AM
Crack3DFFSQ fdb	126KB	FDB File	9/17/01 11 35 AM
Crack3DFFSQ fil	1,154KB	FIL File	9/17/01 11 35 AM
Crack3DFFSQ inp	62KB	INP File	9/17/01 11 35 AM
Crack3DPS fdb	114KB	FDB File	9/17/01 11 35 AM
Crack3DSFML fdb	53KB	FDB File	9/17/01 11 35 AM
Crack3DSFML fil	519KB	FIL File	9/17/01 11 35 AM
Crack3DSFML inp	25KB	INP File	9/17/01 11 35 AM

187 object(s) 49 2MB (Disk free space: 0 bytes) My Computer

FIG. 85

Exploring - D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
Crack3DSFMQ fdb	157KB	FDB File	9/17/01 11 35 AM
Crack3DSFMQ fil	1,333KB	FIL File	9/17/01 11 35 AM
Crack3DSFMQ inp	77KB	INP File	9/17/01 11 35 AM
CrackSBRAMSubScaleAxial fdb	296KB	FDB File	9/17/01 11 35 AM
CrackSBRAMSubScaleAxial fil	2,097KB	FIL File	9/17/01 11 35 AM
CrackSBRAMSubScaleAxial inp	127KB	INP File	9/17/01 11 35 AM
CrackSBRAMSubScaleRadial fdb	320KB	FDB File	9/17/01 11 35 AM
CrackSBRAMSubScaleRadial fil	2,319KB	FIL File	9/17/01 11 35 AM
CrackSBRAMSubScaleRadial inp	130KB	INP File	9/17/01 11 35 AM
CrackSBRAMSubScaleRadial3D fdb	1,230KB	FDB File	9/17/01 11 35 AM
CrackSBRAMSubScaleRadial3D fil	13,507KB	FIL File	9/17/01 11 35 AM
CrackSBRAMSubScaleRadial3D inp	673KB	INP File	9/17/01 11 35 AM
CurveFit1.dat	1KB	Movie Clip	9/17/01 11 35 AM
CurveFit2.dat	1KB	Movie Clip	9/17/01 11 35 AM
CurveFit3.dat	1KB	Movie Clip	9/17/01 11 35 AM
CurveFit4.dat	1KB	Movie Clip	9/17/01 11 35 AM
CurveFit5.dat	1KB	Movie Clip	9/17/01 11 35 AM
EdgeNotched2D fdb	275KB	FDB File	9/17/01 11 35 AM
EdgeNotched3D fdb	594KB	FDB File	9/17/01 11 35 AM
EditColor fdb	5KB	FDB File	9/17/01 11 35 AM
ElementDistortion2D fdb	3KB	FDB File	9/17/01 11 35 AM
ElementDistortion3D fdb	5KB	FDB File	9/17/01 11 35 AM
Example4 fdb	47KB	FDB File	9/17/01 11 35 AM

187 object(s) 49 2MB (Disk free space: 0 bytes) My Computer

FIG. 86

Exploring - D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
InterfaceFemDB_1.fdb	13KB	FDB File	9/17/01 11:35 AM
InterfaceFemDB_2.FDB	15KB	FDB File	9/17/01 11:35 AM
InterfacIdeas_1.unv	31KB	UNV File	9/17/01 11:35 AM
LessFluid.fdb	1,507KB	FDB File	9/17/01 11:35 AM
LessFluid-CustomSolve.jou	1KB	JOU File	9/17/01 11:35 AM
LessSolid.fdb	620KB	FDB File	9/17/01 11:35 AM
LineElement.fdb	2KB	FDB File	9/17/01 11:35 AM
MatProp1.pdb	2KB	PDB File	9/17/01 11:35 AM
MatProp2.pdb	1KB	PDB File	9/17/01 11:35 AM
MeshSurface.fdb	20KB	FDB File	9/17/01 11:35 AM
MeshVolume.fdb	24KB	FDB File	9/17/01 11:35 AM
MixingElbow.cas	125KB	CAS File	9/17/01 11:35 AM
MixingElbow.dat	212KB	Movie Clip	9/17/01 11:35 AM
MixingElbow.fdb	657KB	FDB File	9/17/01 11:35 AM
Nozzle1.jou	1KB	JOU File	9/17/01 11:35 AM
Nozzle1_ascii.cas	253KB	CAS File	9/17/01 11:35 AM
Nozzle1_ascii.dat	980KB	Movie Clip	9/17/01 11:35 AM
NozzleModel.cas	172KB	CAS File	9/17/01 11:35 AM
NozzleModel.dat	365KB	Movie Clip	9/17/01 11:35 AM
P&NRegions.fdb	4KB	FDB File	9/17/01 11:35 AM
PipeFlow.cas	26KB	CAS File	9/17/01 11:35 AM
PipeFlow.dat	11KB	Movie Clip	9/17/01 11:35 AM
PipeFlow.fdb	7KB	FDB File	9/17/01 11:35 AM

187 object(s) 49.2MB (Disk free space: 0 bytes) My Computer

FIG. 87

Exploring - D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
PlaneE1.fdb	8KB	FDB File	9/17/01 11:35 AM
PlaneE1.fil	30KB	FIL File	9/17/01 11:35 AM
PlaneE1.inp	3KB	INP File	9/17/01 11:35 AM
PlaneE1.unv	12KB	UNV File	9/17/01 11:35 AM
PlaneE1G.fdb	9KB	FDB File	9/17/01 11:35 AM
PlaneE2.fdb	43KB	FDB File	9/17/01 11:35 AM
PlaneE2.fil	223KB	FIL File	9/17/01 11:35 AM
PlaneE2.resinp	16KB	RESINP File	9/17/01 11:35 AM
PlaneE2F.fdb	152KB	FDB File	9/17/01 11:35 AM
PlaneE2F.unv	159KB	UNV File	9/17/01 11:35 AM
PlaneS1.fdb	10KB	FDB File	9/17/01 11:35 AM
PlaneS2.fdb	65KB	FDB File	9/17/01 11:35 AM
PlaneS2.fil	386KB	FIL File	9/17/01 11:35 AM
RdAschar.plt	79KB	FLT File	9/17/01 11:35 AM
RdCCM_1.ccmout	2KB	CCMOUT File	9/17/01 11:35 AM
RdCDOCA_1.cdcout	67KB	CDCOUT File	9/17/01 11:35 AM
RWAnsys1.cdb	20KB	CDB File	9/17/01 11:35 AM
RWAnsys2.cdb	7KB	CDB File	9/17/01 11:35 AM
RWIdeas1.unv	185KB	UNV File	9/17/01 11:35 AM
S8RAMSubScale.fdb	242KB	FDB File	9/17/01 11:35 AM
SelectByRegion.fdb	4KB	FDB File	9/17/01 11:35 AM
SelectCurve.fdb	14KB	FDB File	9/17/01 11:35 AM
SelectGroup.fdb	15KB	FDB File	9/17/01 11:35 AM

187 object(s) 49.2MB (Disk free space: 0 bytes) My Computer

FIG. 88

20250901 14:50:01

Name	Size	Type	Modified
Example4 fil	246KB	FIL File	9/17/01 11:35 AM
Example4 inp	16KB	INP File	9/17/01 11:35 AM
Example4F fdb	33KB	FDB File	9/17/01 11:35 AM
ExpCurve.dat	2KB	Movie Clip	9/17/01 11:35 AM
fdv.nam	1KB	NAM File	9/17/01 11:35 AM
fdv.xyz	5KB	XYZ File	9/17/01 11:35 AM
fdv0001.dat	14KB	Movie Clip	9/17/01 11:35 AM
fdv3d.nam	1KB	NAM File	9/17/01 11:35 AM
fdv3d.xyz	28KB	XYZ File	9/17/01 11:35 AM
fdv3d0001.dat	91KB	Movie Clip	9/17/01 11:35 AM
FluidCFD1.fdb	8KB	FDB File	9/17/01 11:35 AM
FluidCFD1.inp	3KB	INP File	9/17/01 11:35 AM
Geometry.fdb	22KB	FDB File	9/17/01 11:35 AM
GeometryEdit_1.fdb	3KB	FDB File	9/17/01 11:35 AM
GridGen.grd	6KB	G5D File	9/17/01 11:35 AM
GridGen.p3d	23KB	F3D File	9/17/01 11:35 AM
Heat0.fdb	8KB	FDB File	9/17/01 11:35 AM
Heat0.sot	11KB	SOT File	9/17/01 11:35 AM
Heat1.fdb	5KB	FDB File	9/17/01 11:35 AM
Heat1.sot	4KB	SOT File	9/17/01 11:35 AM
HTAxisym1.fdb	6KB	FDB File	9/17/01 11:35 AM
InsertFlawLinear.fdb	35KB	FDB File	9/17/01 11:35 AM
InsertFlawQuadratic.fdb	63KB	FDB File	9/17/01 11:35 AM

187 object(s) 49 2MB (Disk free space: 0 bytes) My Computer

FIG. 89

Name	Size	Type	Modified
sharp.plt	6KB	PLT File	9/17/01 11:35 AM
SinGen.gin	27KB	GIN File	9/17/01 11:35 AM
SinGen.out	1,009KB	OUT File	9/17/01 11:35 AM
Smooth2d_1.fdb	17KB	FDB File	9/17/01 11:35 AM
Smooth2d_2.fdb	16KB	FDB File	9/17/01 11:35 AM
Smooth2d_3.fdb	54KB	FDB File	9/17/01 11:35 AM
Solid1L.fdb	9KB	FDB File	9/17/01 11:35 AM
Solid1L.fil	53KB	FIL File	9/17/01 11:35 AM
Solid1L.resinp	4KB	RESINP File	9/17/01 11:35 AM
Solid1L.unv	13KB	UNV File	9/17/01 11:35 AM
Solid1Q.fdb	20KB	FDB File	9/17/01 11:35 AM
Solid1Q.fil	133KB	FIL File	9/17/01 11:35 AM
Solid1Q.resinp	10KB	RESINP File	9/17/01 11:35 AM
Solid1Q.unv	1KB	UNV File	9/17/01 11:35 AM
SolidCFD1.fdb	9KB	FDB File	9/17/01 11:35 AM
SolidCFD1.inp	3KB	INP File	9/17/01 11:35 AM
StructuralGrid.fdb	35KB	FDB File	9/17/01 11:35 AM
TexChem_1.fdb	5KB	FDB File	9/17/01 11:35 AM
TexChem_1.spatial	13KB	SPATIAL File	9/17/01 11:35 AM
ThermalGrid.unv	6KB	UNV File	9/17/01 11:35 AM
UnitCube.fdb	7KB	FDB File	9/17/01 11:35 AM
UnitSquare.fdb	3KB	FDB File	9/17/01 11:35 AM

187 object(s) 49 2MB (Disk free space: 0 bytes) My Computer

FIG. 90

